STR-DA30ES/DA50ES/V55ES

SERVICE MANUAL

US Model
Canadian Model
STR-DA30ES/DA50ES
AEP Model
UK Model
E Model
Australian Model
PX Model
STR-DA50ES
Chinese Model
STR-V55ES

Photo : STR-DA50ES

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 120 watts (80 watts: DA30ES) per cannel minimum RMS power, with no more than 0.05% total harmonic distortion from 250 milliwatts to rated output (USA model only).

Amplifier section

POWER OUTPUT

Stereo mode (8 ohms 20 Hz – 20 kHz, THD 0.05%)
120 W + 120 W (DA50ES/V55ES)
80W + 80W (DA30ES)
(4 ohms 20 Hz – 20 kHz, THD 0.05%)
100 W + 100 W (DA50ES/V55ES)
70W + 70W (DA30ES)

Surround mode (8 ohms at 1 kHz, THD 0.05%)
Front: 120W + 120W (DA50ES/V55ES)
80W + 80W (DA30ES)
Center[a)]: 120W (DA50ES/V55ES)
80W (DA30ES)
Rear[a)]: 120W + 120W (DA50ES/V55ES)
80W + 80W (DA30ES)
(4 ohms at 1kHz, THD 0.05%)
Front: 100W + 100W (DA50ES/V55ES)
70W + 70W (DA30ES)
Center[a)]: 100W (DA50ES/V55ES)
70W (DA30ES)
Rear[a)]: 100W + 100W (DA50ES/V55ES)
70W + 70W (DA30ES)

a) Depending on the sound field settings and the source, there may be no sound output.

Frequency response
PHONO: RIAA
equalization curve ±0.5 dB
CD, TAPE, MD/DAT, DVD/LD, DVD TV/DBS, TV/LD, VIDEO 1, 2, and VIDEO 3:
10 Hz - 50 kHz +0.5/-2 dB (with sound field, tone, and bass booster bypassed)

Inputs (Analog) PHONO:
Sensitivity: 2.5 mV
Impedance: 50 kilohms
S/N[b)]: 75 dB (A, 2.5 mV[c)])
CD, DVD/LD, DVD/TAPE, MD/DAT. TV/DBS, TV/LD, 5.1 INPUT, VIDEO 1, 2, AND VIDEO 3:
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b)]: 82 dB (A, 150 mV[c)])

b) 78'IHF
c) Weighted network, input level

Inputs (Digital) DVD/LD, DVD (coaxial):
Sensitivity: 0.5 Vp-p
Impedance: 75 ohms
S/N: 100 dB (A, 20 kHz LPF)
CD, DVD/LD, DVD, TV/DBS, TV/LD, MD/DAT (Optical):
S/N: 100 dB (A, 20 kHz LPF)

— Continued on next page —

FM STEREO FM-AM RECORDER

MICROFILM

SONY®

Outputs (Analog)
TAPE, MD/DAT (REC OUT),
VIDEO 1, 2 (AUDIO OUT):
Voltage: 150 mV,
Impedance: 10 kilohms
FRONT L/R, CENTER, REAR L/R
WOOFER:
Voltage: 2 V
Impedance: 1 kilohms
PHONES:
Accepts low – and high-impedance headphones

Outputs (Digital)
MD/DAT (Optical)

BASS BOOST +6 dB at 70 Hz

Sampling Frequency
48 kHz

EQ BASS: 100 Hz ~ 1.0kHz (21 steps)
MID: 500 Hz ~ 5.0kHz (21 steps)
TREBLE: 1.0 kHz ~ 10kHz (21 steps)
Gain levels: ±10 dB, 1 dB step

FM tuner section

Tuning range 87.5 – 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Sensitivity Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV

Usable sensitivity
11.2 dBf, 2 µV (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 KHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz – 15 kHz +0.5/-2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range With 10-kHz tuning scale:
530 – 1710 kHz (USA/Canada)[d)]
530 – 1610 kHz (E)[d)]
With 9-kHz tuning scale:
531 – 1710 kHz (USA/Canada)[d)]
531 – 1602 kHz (all other countries)[d)]

Antenna Loop antenna

Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion
0.5 % (50 mV/m, 400 kHz)

Selectivity At 9 kHz: 35dB
At 10 kHz: 40 dB

d) You can change the AM tuning scale to 9 kHz (USA/Canada) or 10 kHz (all other countries). After tuning in any AM station, turn off the receiver. Hold down the TUNING + button and press the 1/u button. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat theprocedure.

Video section

Inputs S.VIDEO Y: 1 Vp-p 75 ohms
S.VIDEO C: 0.286 Vp-p 75 ohms

Outputs S.VIDEO Y: 1 Vp-p 75 ohms
S.VIDEO C: 0.286 Vp-p 75 ohms

General

System Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section: Low-noise NF type equalizer
Power amplifier section: Pure-complementary SEPP

Power requirements
USA, Canadian: 120 V AC, 60 Hz
E, Saudi Arabia, PX: 120 or 220 or 240 V AC, 50/60 Hz
(Adjustable with voltage selector)
Other countries: 230 V 50/60 Hz

Power consumption
DA50ES USA, E: 380 W
DA50ES Canadian: 550 VA
DA30ES USA: 280 W
DA30ES Canadian: 400 VA
Other countries: 420 W

AC outlets 2 switched, total 100 W

Dimensions $430 \times 160 \times 410$ mm ($17 \times 6^{3}/_{8} \times 16^{1}/_{4}$ inches)
including projecting parts and controls

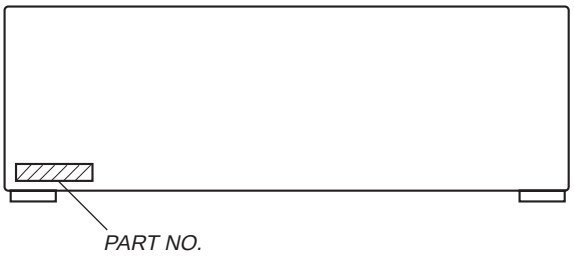
Mass (Approx.) DA50ES/V55ES: 16 Kg
DA30ES: 14 Kg

Supplied Accessories
FM wire antenna (1)
AM loop antenna (1)
Remote commander RM-TP501 (remote) (1)
LR6 (size-AA) alkaline batteries (4)

Design and specifications are subject to change without notice.

MODEL IDENTIFICATION

– BACK PANEL –



MODEL	PARTS No.
DA50ES: US model	4-900-653-0☐
DA50ES: Canadian model	4-900-653-1☐
DA50ES: AEP, UK, German, East European, Australian models	4-900-653-2☐
DA50ES: E, Saudi Arabia, PX models	4-900-653-3☐
DA50ES: Malaysia, Singapore models	4-900-653-4☐
V55ES: Chinese model	4-900-653-5☐
DA30ES: US model	4-900-653-6☐
DA30ES: Canadian model	4-900-653-7☐

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

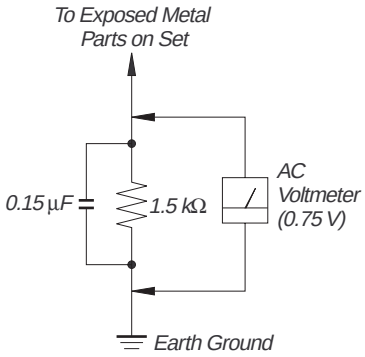


Fig. A. Using an AC voltmeter to check AC leakage.

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与安全有关的零部件须知

在原理图上用阴影及⚠标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

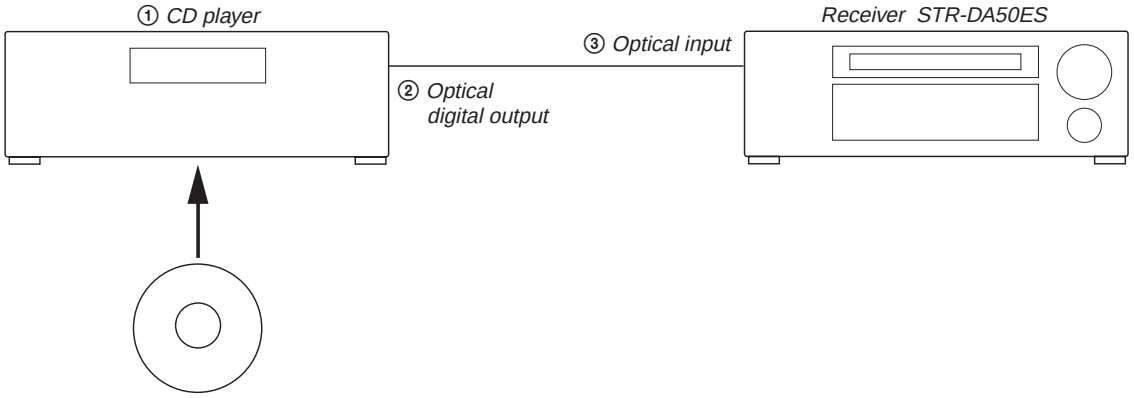
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

DTS Decode Test

[Required Instrument]
CD player (equipped with optical digital output)
Optical cable
DTS test CD (J-2501-154-A)

[Connection]



[Procedure]
1. Set the FUNCTION of the receiver to the CD position and confirm that "@OPTICAL@" and "CD" appear on the display.

2. Insert the DTS test CD into the CD player and play the CD.

3. About three seconds later, confirm that the receiver recognizes the optical signal and that the "DTS" and "dts [3/2]" are appear on the display. Confirm also that MULTI CHANNEL DECODING (blue lamp) flashes on the front panel.

[Music Demonstration]

Track No.	Contents	Time
1	Seal : "Prayer for the Dying"	5'40"
2	Andrew Litton conducting The Dallas Symphony Orchestra & Chorus: Excerpt from Tchaikovsky: "1812 Overture"	4'16"
3	Alan Parsons with Christopher Cross: "So Far Away"	4'08"
4	Shoelss Joe: "The Bet"	3'29"
5	TELARC: "A Touch of Surround Madness"	6'42"

[Set-Up]

Track No.	Contents	Time
6	1 kHz sine (All channels) Level Adjustment and Harmonic Distortion Analysis	1'00"
7	100 Hz sine (All channels) Verification of Signal and Subwoofer Testing	1'00"
8	C-Weighted Pink Noise-Left Front Channel	2'00"
9	C-Weighted Pink Noise-Center Channel	2'00"
10	C-Weighted Pink Noise-Right Front Channel	2'00"
11	C-Weighted Pink Noise-Right Rear Channel	2'00"
12	C-Weighted Pink Noise-Left Rear Channel	2'00"
13	C-Weighted Pink Noise-Subwoofer (LEE)	2'00"
14	C-Weighted Pink Noise-All Channels	2'00"
15	10 Hz to 20 kHz Sine Sweep An "All Channel" Frequency Response Test	2'00"
16	20 Hz to 160 Hz sine sweep A "Subwoofer" Low Frequency Response Test	2'00"

* Track numbers from 8 to 14 are for Room Equalization and Channel Identification.

Location of Parts and Basic Operations

This chapter provides information about the locations and functions of the buttons and controls on the front panel. It also explains basic operations.

Front Panel Parts Description

[1] I/⏻ switch
Press to turn the receiver on and off.

- Before you turn on the receiver, make sure that you have turned the MASTER VOLUME control to the leftmost position to avoid damaging you speakers.

[2] FUNCTION control
Rotate to select the component you want to use.

To select	Rotate to light
VCR	VIDEO 1 or VIDEO 2
Camcorder or video game	VIDEO 3
TV or DBS tuner	TV/DBS (USA/Canada)
TV tuner or LD player	TV/LD (Other countries)
DVD or LD player	DVD/LD (USA/Canada)
DVD player	DVD (Other countries)
Tape deck	TAPE
MD or DAT deck	MD/DAT
CD player	CD
Built in tuner	TUNER
Turntable	PHONO

After selecting the component, turn on the component you selected and play the program source.

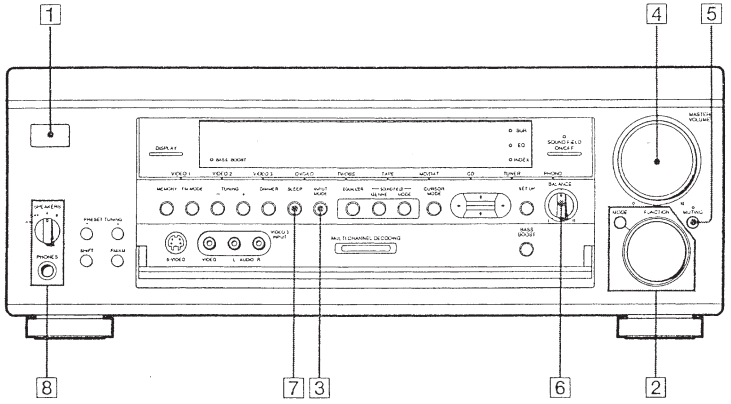
- After selecting VCR, camcorder, video game, DVD player, or LD player, turn on the TV and set the TV's video input.
- When using digital inputs, there may be up to 6 seconds of silence when switching functions or inserting new discs.

MODE button
Press to select and play another video/audio source in combination with the selected component.
Each time you press the button, the display changes as follows:

→ V:XXX → A:XXX → selected component →

Press MODE to display	And rotate FUNCTION to select
V:XXX	Any video source to enjoy with the audio from the selected component
A:XXX	Any audio source to enjoy with the video from the selected component

Function indicators
Normally, the indicator above the selected function lights orange. However, when MODE is used to select a different video (V:XXX) or audio (A:XXX) source, the video function lights green and the audio function lights orange. This also occurs when you select audio components (like PHONO).



[3] INPUT MODE button
Press to select the input mode for your digital components (DVD/LD (or DVD), TV/DBS (or TV/LD), CD, and MD/DAT).
Each press switches the input mode of the currently selected component.

Select	To
AUTO	Give priority to digital signals when there are both digital and analog connections. If there are no digital signals, analog is selected
ANALOG	Specify the analog audio signals input to the AUDIO IN (L and R) jacks
DIGITAL (OPTICAL)	Specify the digital audio signals input to the DIGITAL OPTICAL input jacks
DIGITAL (COAXIAL)	Specify the digital audio signals input to the DIGITAL COAXIAL input jack (DVD/LD (DVD) only)

[4] MASTER VOLUME control
After turning on the component you selected, rotate to adjust the volume.

[5] MUTING button
Press to mute the sound. The indicator above the button lights up when the sound is muted.

[6] BALANCE control
Rotate to adjust the balance of the front speakers.

[7] SLEEP button
Press to select the time after which the receiver turns off automatically (see page 44).

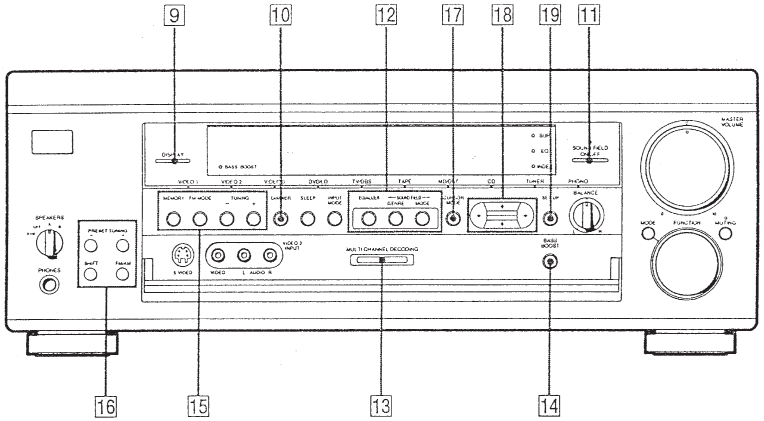
[8] SPEAKERS selector
Set according to the front speakers you want to drive.

Set to	To select
A	The speakers connected to the FRONT SPEAKERS A terminals
B	The speakers connected to the FRONT SPEAKERS B terminals
A+B	The speakers connected to both the FRONT SPEAKERS A and B terminals (parallel connection)
OFF	No front speaker output

PHONES jack
Connects headphones.

- To use the headphones, set the SPEAKERS selector to OFF to output sound to the headphones.
- When the sound field is ON, setting the SPEAKERS selector to OFF will automatically present a two channel downmix from the headphones.

This section is extracted from STR-DA50ES instruction manual.



9 DISPLAY button
Press repeatedly to change the information on the display window as follows:

Index name of the component or the preset station*
↓
FUNCTION button indication or frequency**
↓
Sound field applied to the program source

* *Index name appears only when you have assigned one to the component or preset station (see page 42). Index name does not appear when only blank spaces have been entered, or it is the same as the function button.*

** *Frequency appears only when the tuner is selected.*

10 DIMMER button
Press repeatedly to adjust the brightness of the display. You can select from four different brightness levels.

11 SOUND FIELD ON/OFF button
Press to turn the sound field on or off. The indicator above the button lights when the sound field is on. For details, see "Enjoying Surround Sound" starting from page 26.

12 Use the following buttons to enjoy surround sound. For details, see "Enjoying Surround Sound" starting from page 26.

EQUALIZER button
Press to turn the equalizer on or off. The EQ indicator lights when the equalizer is turned on.
When you adjust the equalizer using the CURSOR MODE menu EQUALIZER parameters (page 34) the settings are stored automatically and can be reproduced whenever you turn on the equalizer.

GENRE button
Press to select the sound field group you want.

MODE button
Press to select a sound field from the group you selected.

13 MULTI CHANNEL DECODING indicator
This indicator lights when the sound field is on and the unit is decoding signals recorded in a multi channel format.

14 BASS BOOST button
Press to increase the bass of the front speakers. The BASS BOOST indicator lights up when the function is turned on.

When you want to enjoy high quality sound
Do the following to bypass the sound field, tone effect, and the bass booster circuits.
1 Press BASS BOOST to turn off the BASS BOOST indicator.
2 Press EQUALIZER to turn off the EQ indicator.
3 Press SOUND FIELD ON/OFF to turn off the SOUND FIELD indicator.
The result will be a sound that is highly faithful to the program source.

15 The following buttons operate the built-in tuner. For details, see "Receiving Broadcasts" starting from page 37.

MEMORY button
Press to memorize a preset station.

FM MODE button
If "STEREO" flashes in the display and the FM stereo reception is poor, press this button. You will not have the stereo effect but the sound is improved.

TUNING +/– buttons
Scans all the available radio stations.

16 The following buttons operate the built-in tuner. For details, see "Receiving Broadcasts" starting from page 37.

PRESET TUNING +/– buttons
Scans all preset stations.

SHIFT button
Selects a memory page for preset stations.

FM/AM button
Selects the FM or AM band.

17 CURSOR MODE button
Press this button repeatedly to select any of the following three cursor modes. The indicator for the selected cursor mode lights up. The indicator turns off when you press the SET UP button.

When cursor mode is	You can
SURROUND	Change the various surround parameters (effect level, wall type, etc.), adjust the volume and balance of the rear speakers, and adjust the volume of the center speaker and subwoofer (page 33)
EQUALIZER	Adjust the equalization (bass/mid/treble) of the front, center and rear speakers (page 34). Press the EQUALIZER button to activate the equalizer.
INDEX	Enter an index name for preset stations and program sources (page 42)

18 Cursor buttons (↑/↓/←/→)
After pressing the CURSOR MODE or SET UP button, use these buttons to make specific settings (see pages 15, 17, 33, 34, and 43).

19 SET UP button
Press this button repeatedly to select any of the following three indications. The selected indication appears in the display and you will be able to make various settings using the cursor buttons.

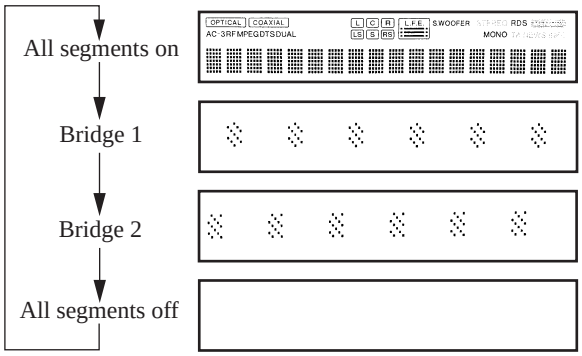
When you display	You can
SPEAKER SETUP	Specify the front, center, rear speaker sizes, the rear speaker position, and whether or not you are using a subwoofer (page 15)
SPEAKER DISTANCE	Specify the front, center, and rear speaker distances and the unit of measurement (page 17)
OTHER	Set the display to one of four brightness levels

SECTION 2
TEST MODE

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the FUNCTION MODE and the SOUND FIELD MODE buttons simultaneously, press the power [I/⏻] button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another.

  When the CURSOR MODE button, ←, ↑, ↓, or → is pressed, the indication advances in the following order: All segments on, Bridge 1, Bridge 2, All segments off.



FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the FUNCTION MODE and the SOUND FIELD GENRE buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message FACTORY SET appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD GENRE and the SOUND FIELD ON/OFF buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message ALL CLEAR!appears and the preset data is cleared.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD ON/OFF button, press the power [I/⏻] button to turn on the main power. The message SURR CLEAR! appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING + button, press the power [I/⏻] button to turn on the main power. Either the message AM 9kHz STEP or AM 10kHz STEP appears. Select the desired step.

DSP TEST MODE

* Procedure:
  While depressing the FUNCTION MODE and the EQUALIZER buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message DSP NO ERROR or DSP ERROR. When DSP NO ERROR is displayed, a 1 kHz signal is output to all channels.
  When the ←, ↑, ↓, or → button is pressed while DSP NO ERROR is displayed, the message DSP TEST MODE appears.
  In this mode, the input signal that is selected by the FUNCTION key is distributed to each speaker.

Speaker	CENTER	REAR L	REAR R	FRONT L	FRONT R
Signal	L	L	R	L	R

DTS MODE

* Procedure:
  While depressing the ← and → buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message ATTENUATE OFF or ATTENUATE ON.

SECTION 3
ELECTRICAL ADJUSTMENT

IDLING CURRENT ADJUSTMENT

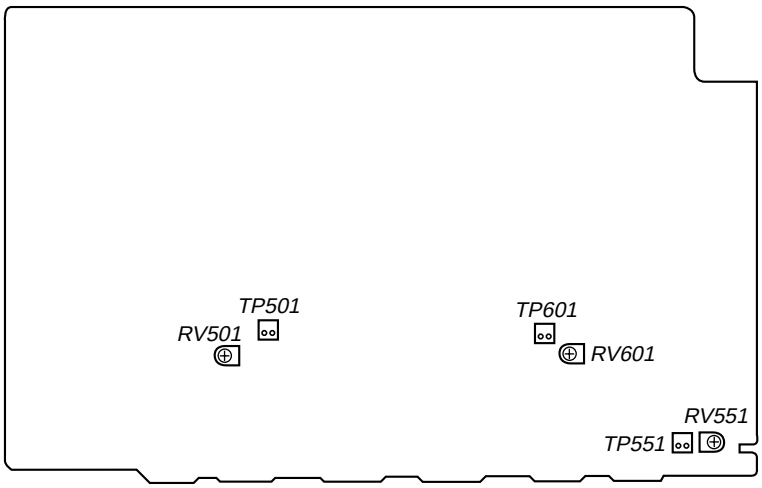
[Measuring Instrument] Digital voltmeter

[Adjustment Method] Adjust the respective adjustment elements so that the voltage (absolute value) across the corresponding testpoints satisfies the specification.

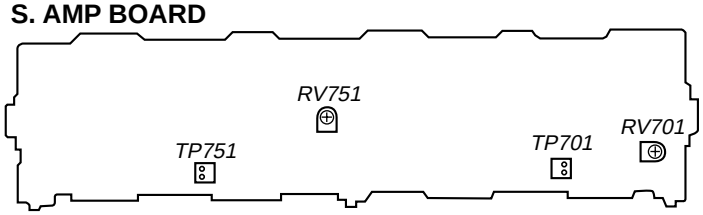
Channel	Test point	Adjustment element	Specification
FRONT L	TP501	RV501	6mV
FRONT R	TP551	RV551	
CENTER	TP601	RV601	
REAR L	TP701	RV701	
REAR R	TP751	RV751	

[Location of Adjustment Elements]

MAIN BOARD

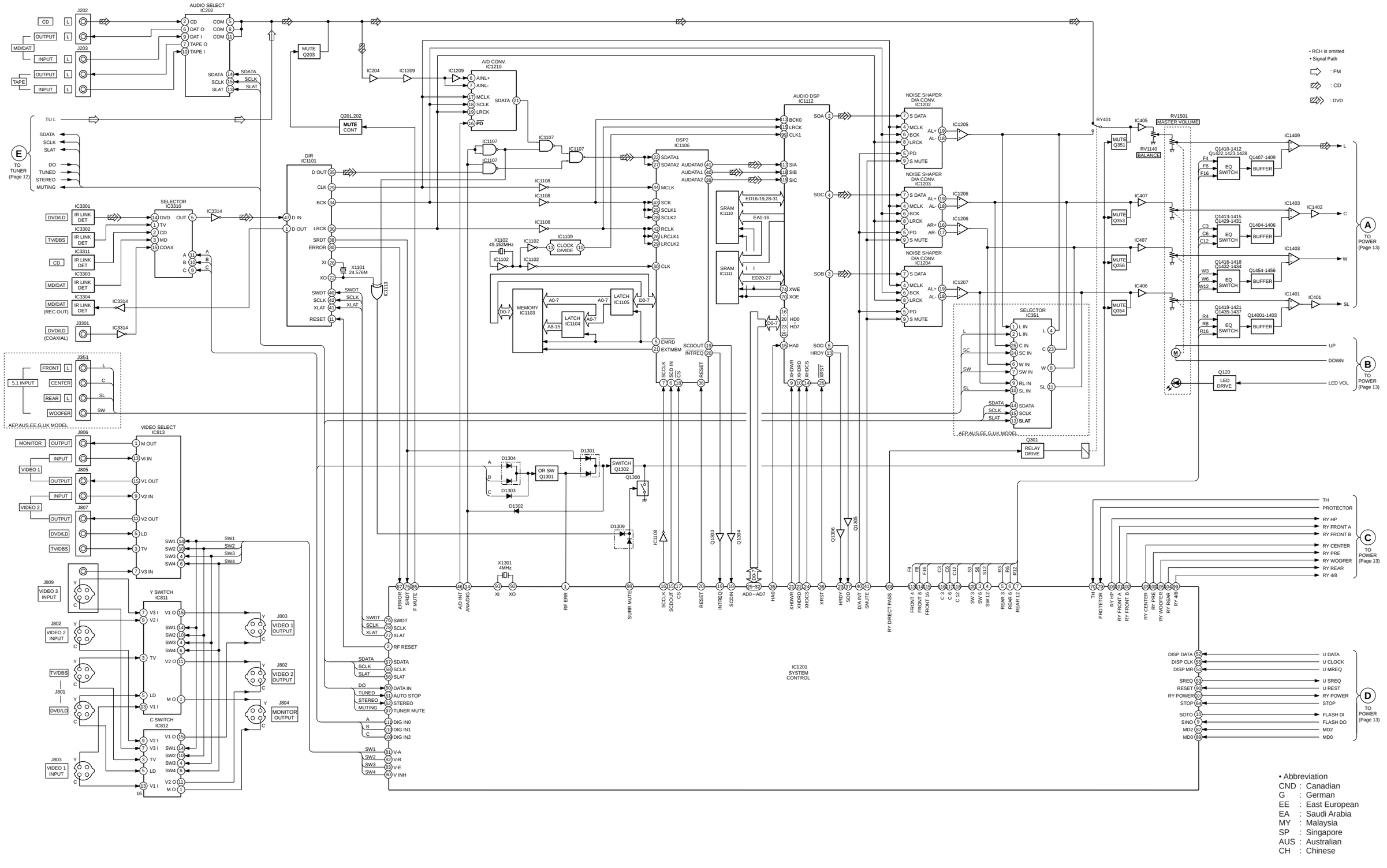


S. AMP BOARD

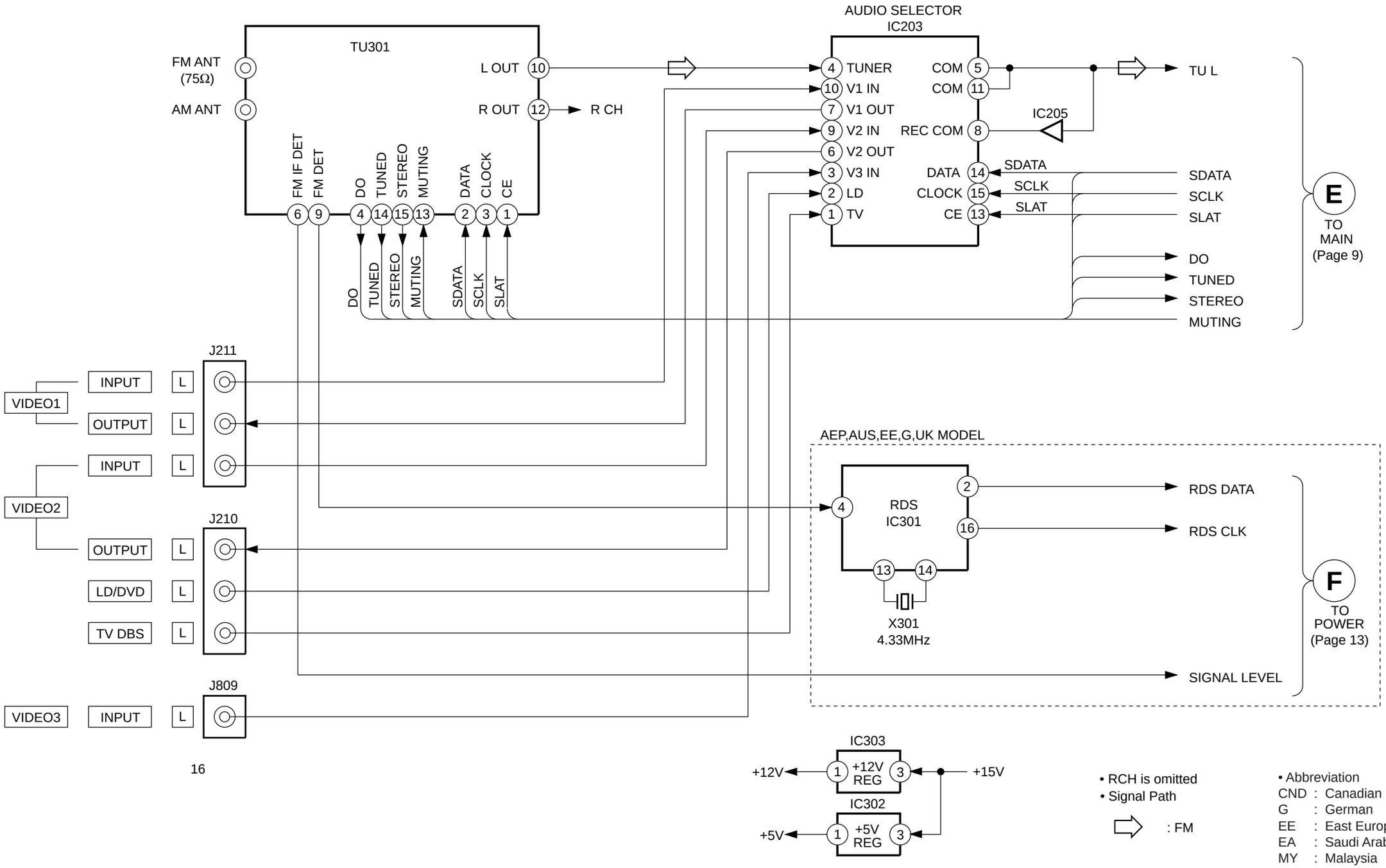


SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM – MAIN SECTION –



4-2. BLOCK DIAGRAM – TUNER SECTION –



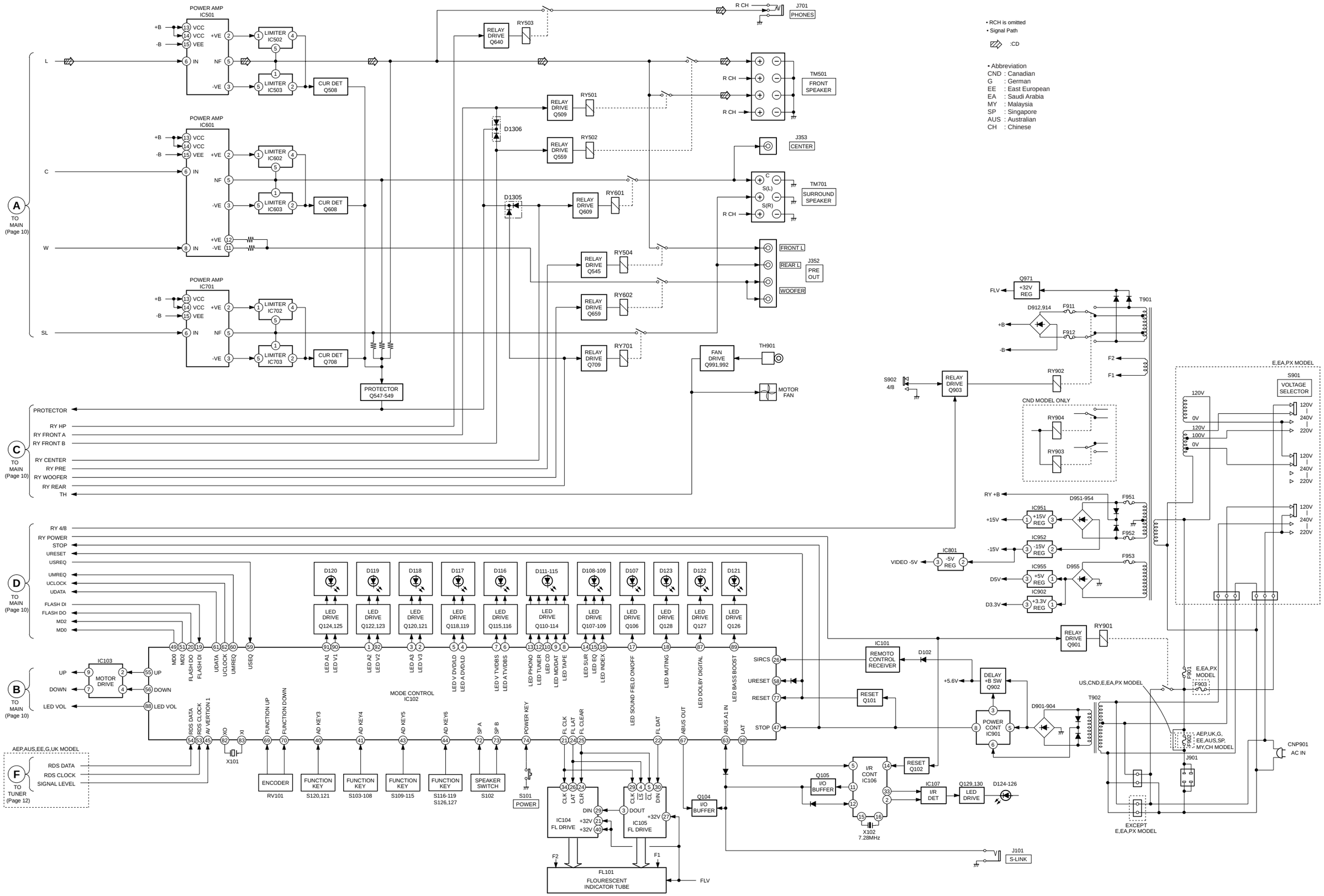
• RCH is omitted
• Signal Path

: FM

• Abbreviation

CND	:	Canadian
G	:	German
EE	:	East European
EA	:	Saudi Arabia
MY	:	Malaysia
SP	:	Singapore
AUS	:	Australian
CH	:	Chinese

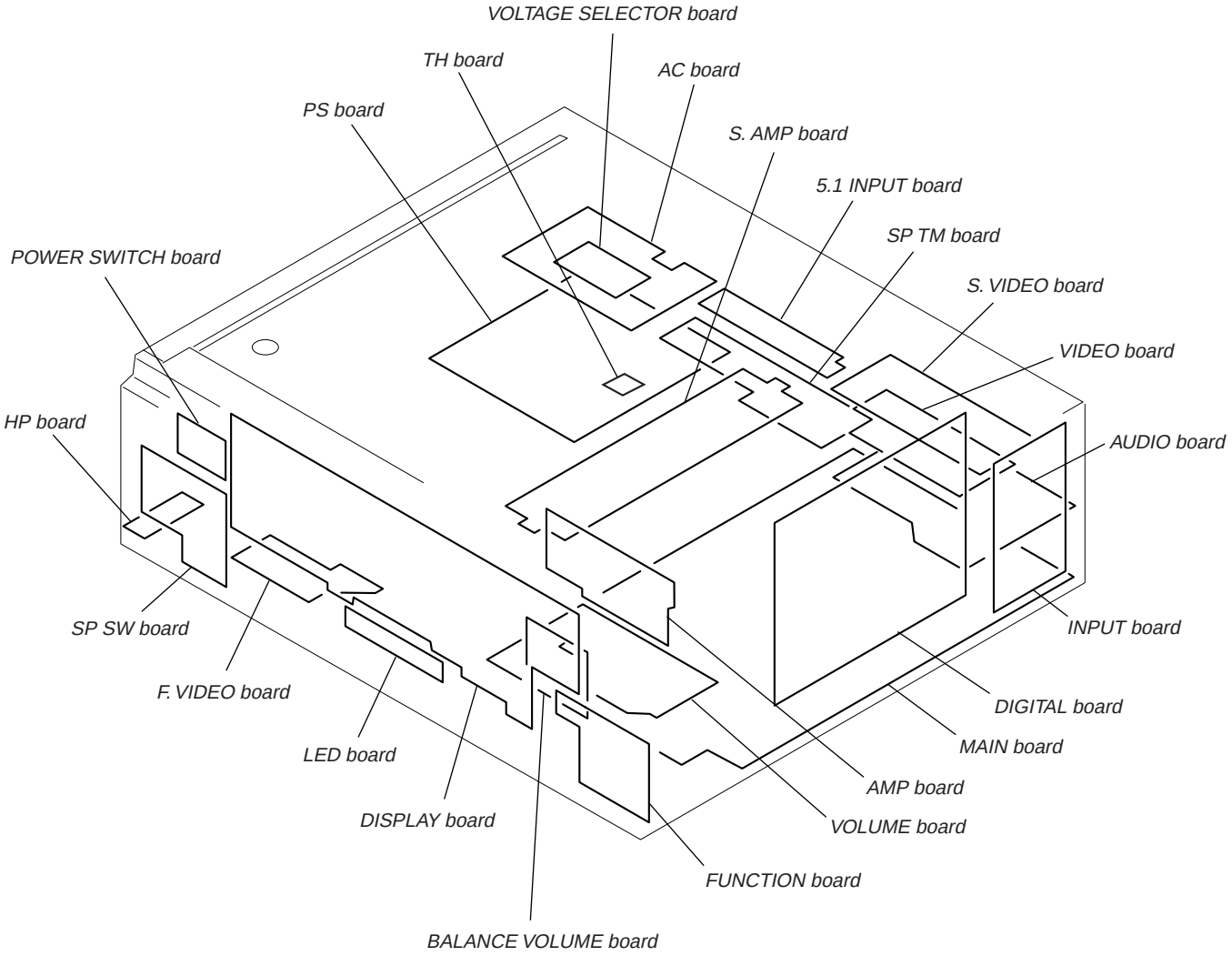
4-3. BLOCK DIAGRAM – POWER SECTION –



• RCH is omitted
• Signal Path
:CD

• Abbreviation
CND : Canadian
G : German
EE : East European
EA : Saudi Arabia
MY : Malaysia
SP : Singapore
AUS : Australian
CH : Chinese

4-4. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

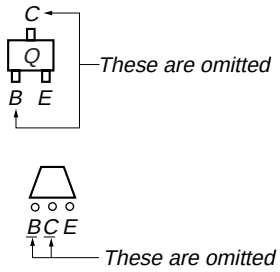
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : CD
  : DIGITAL
  : PHONO
- Abbreviation
  CND :Canadian
  EA :Saudi Arabia
  MY :Malaysia
  SP :Singapore
  G :German
  EE :East European
  AUS :Australian
  CH :Chinese

For printed wiring boards.

Note:

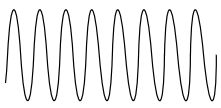
- : parts extracted from the component side.
- ○ : Through hole.
- : Pattern from the side which enables seeing.



• Waveform

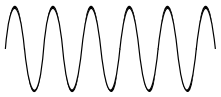
• DISPLAY SECTION

① IC106 ⑯ (X OUT)



7.28MHz

② IC102 ㉜ (XO)



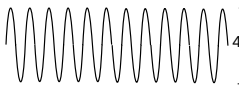
4MHz

• DIGITAL SECTION

① IC1201 ㉜ (XO)

4MHz

② IC1102 ⑧



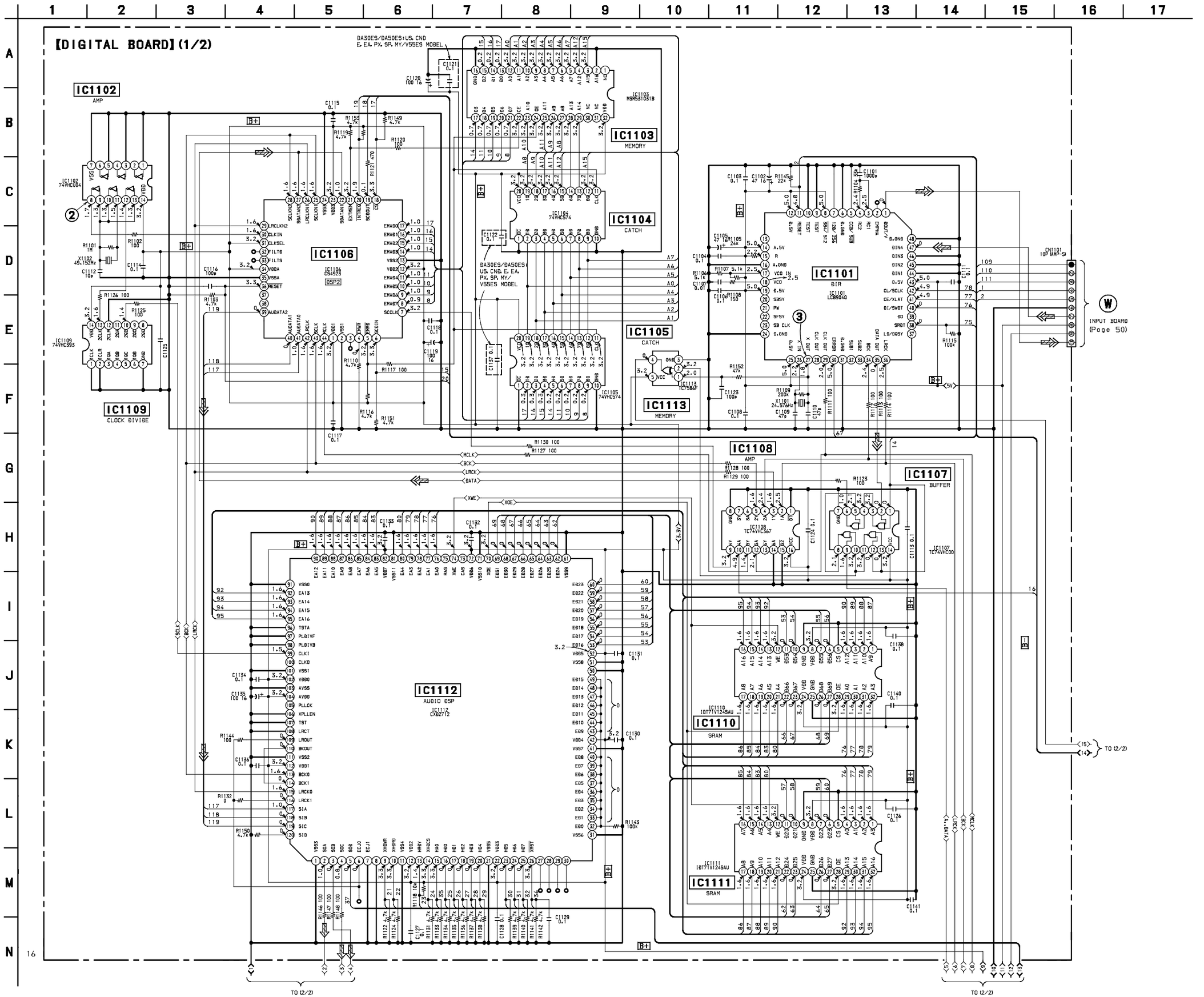
49.152MHz

③ IC1101 ㉗ (X OUT)

24.576MHz

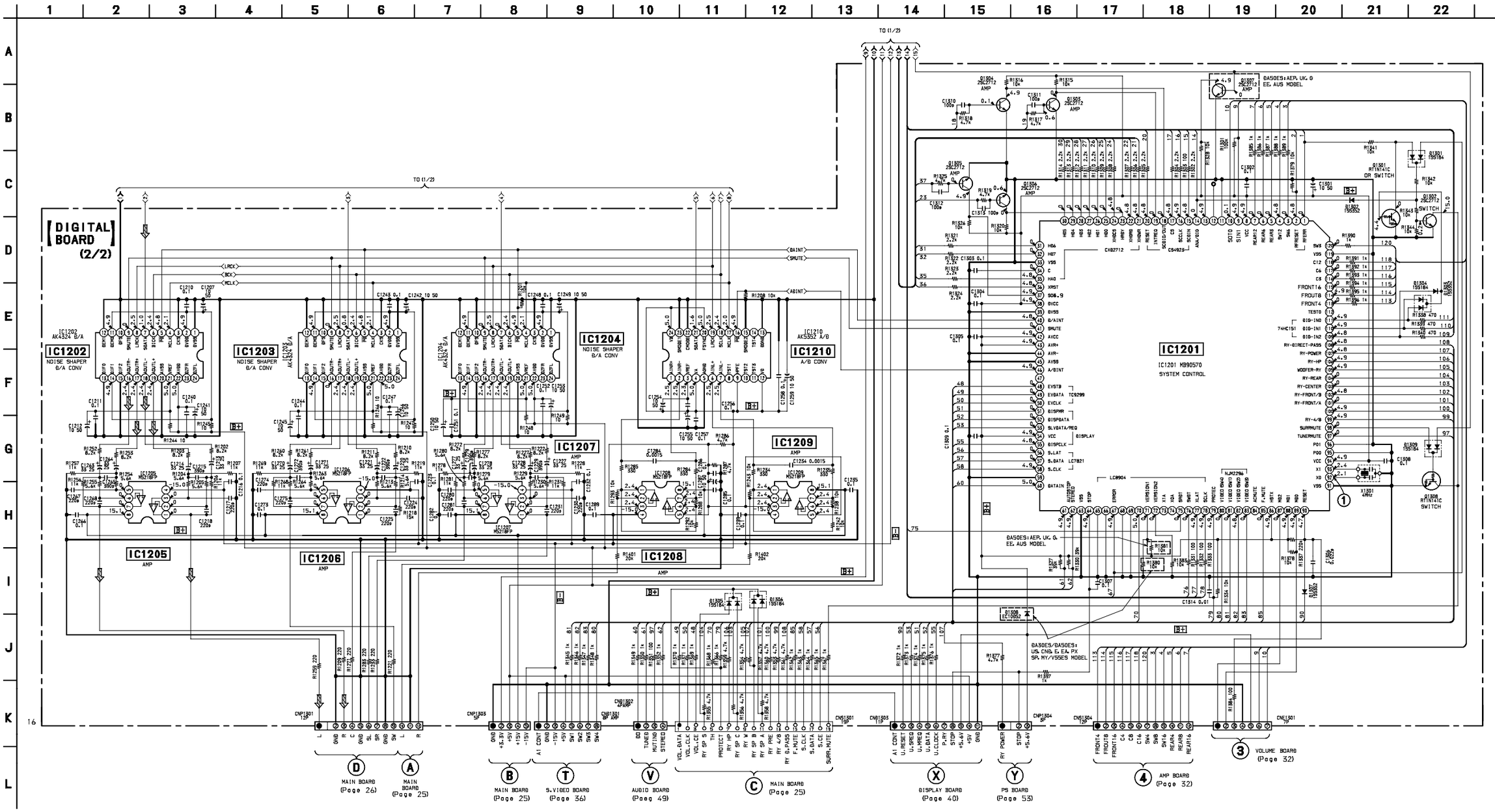
4-5. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/2) —

• See page 21 for printed wiring board. • See page 66, 67 for IC Pin Functions. • See page 16 for Waveforms. • See page 57 for IC Block Diagrams.



4-6. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/2) —

• See page 63 for IC Pin Functions. • See page 16 for Waveforms. • See page 57 for IC Block Diagrams.



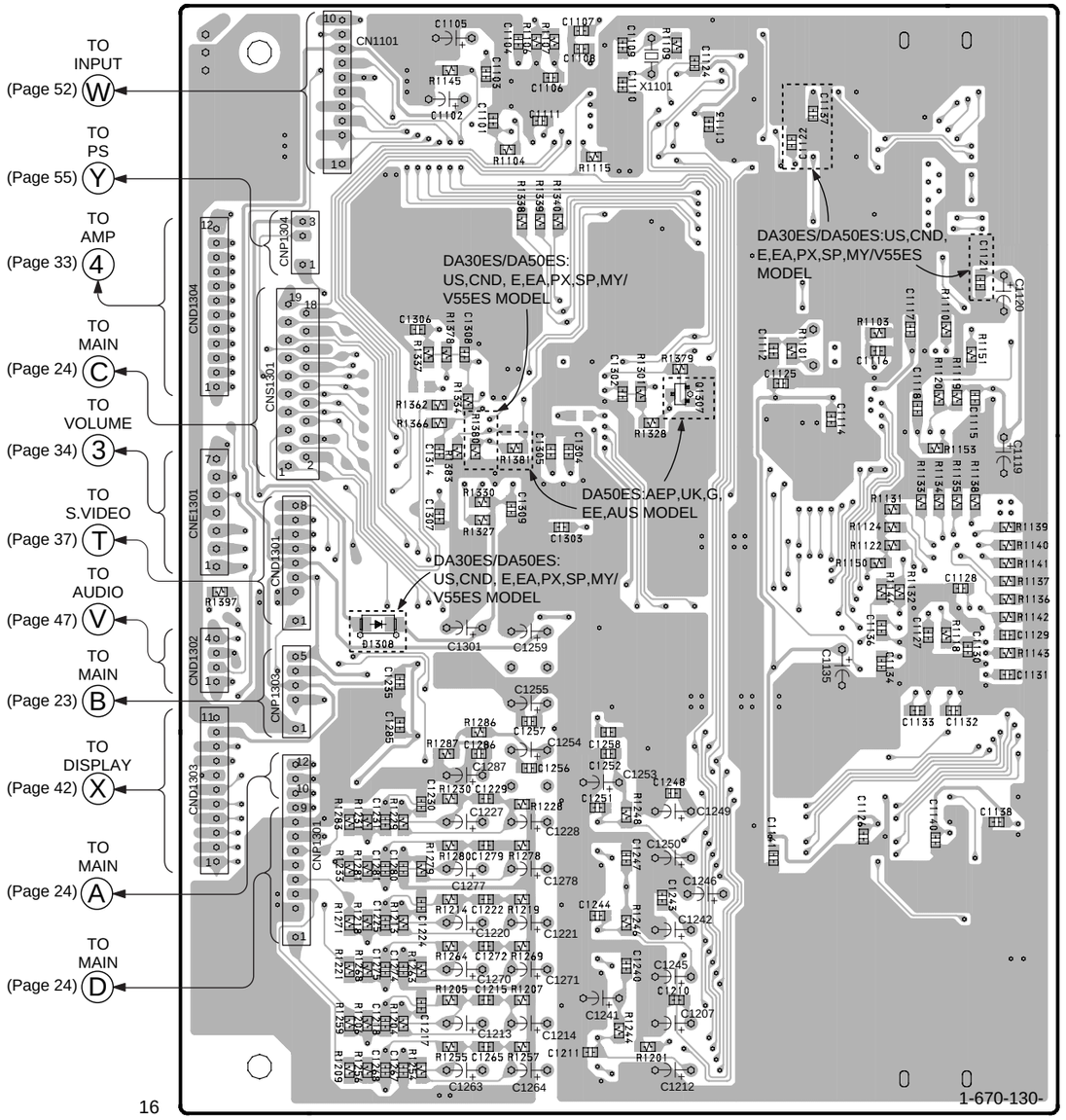
4-7. PRINTED WIRING BOARD — DIGITAL SECTION —

• See page 15 for Circuit Boards Location.

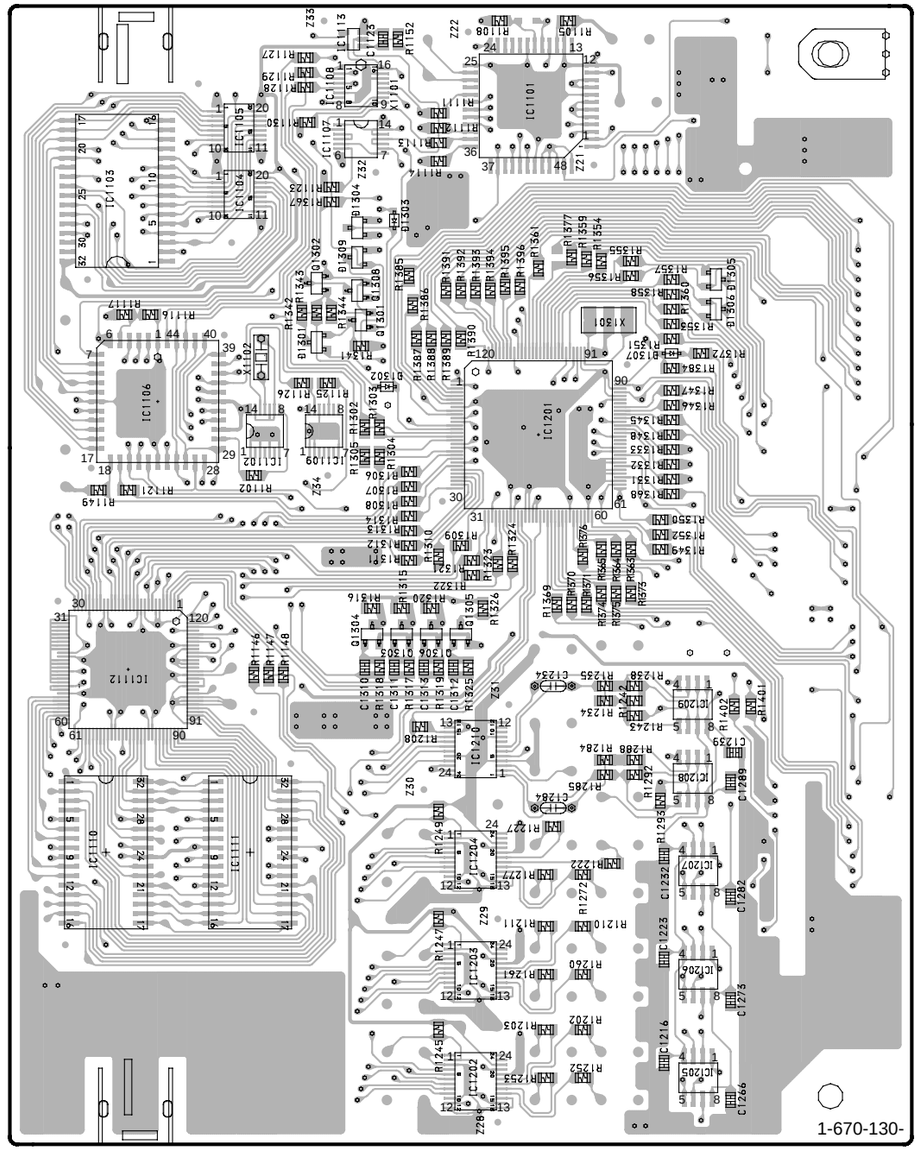
• **Semiconductor Location**

Ref. No.	Location
D1301	C-10
D1302	C-10
D1303	B-10
D1304	B-10
D1305	C-12
D1306	C-12
D1307	C-12
D1308	E-3
D1309	C-10
IC1101	B-11
IC1102	D-9
IC1103	B-8
IC1104	B-9
IC1105	B-9
IC1106	C-8
IC1107	B-10
IC1108	B-10
IC1109	D-10
IC1110	F-8
IC1111	F-9
IC1112	E-8
IC1113	A-10
IC1201	C-11
IC1202	H-10
IC1203	G-10
IC1204	F-10
IC1205	H-12
IC1206	G-12
IC1207	F-12
IC1208	F-12
IC1209	E-12
IC1210	F-10
Q1301	C-10
Q1302	C-10
Q1303	E-10
Q1304	E-10
Q1305	E-10
Q1306	E-10
Q1307	C-5
Q1308	C-10

【DIGITAL BOARD】(SIDE A)



【DIGITAL BOARD】(SIDE B)



4-8. PRINTED WIRING BOARD — MAIN SECTION —

• See page 15 for Circuit Boards Location.

• **Semiconductor Location**

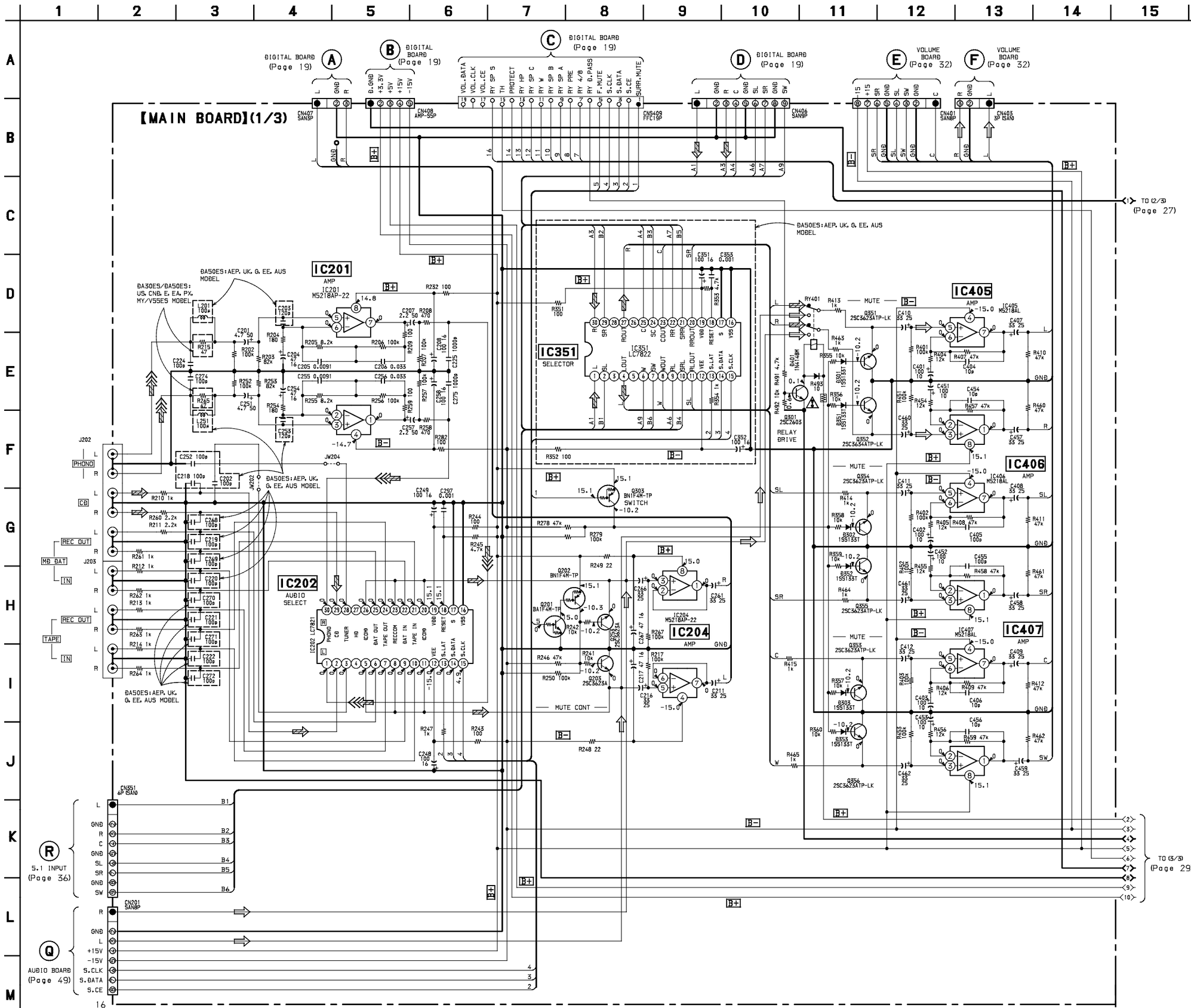
Ref. No.	Location
D301	D-8
D351	D-8
D401	E-9
D501	G-9
D502	G-9
D503	H-10
D504	G-11
D505	F-11
D506	F-2
D507	F-10
D547	F-2
D548	F-2
D549	F-2
D551	H-3
D552	H-3
D553	G-5
D554	H-5
D555	F-11
D601	H-5
D602	H-6
D603	H-6
D604	H-8
D605	F-5
D655	E-9
D951	C-3
D952	C-3
D953	C-3
D954	C-3
D955	A-3
D991	C-3
D992	B-3
IC201	B-10
IC202	D-10
IC204	C-9
IC351	B-8
IC401	E-3
IC402	E-4
IC405	D-7
IC406	C-7
IC407	B-7
IC501	F-8
IC502	H-9
IC503	H-10
IC552	H-3
IC553	H-4
IC601	G-3
IC602	H-6
IC603	H-7
IC902	B-5
IC951	C-4
IC952	C-4
IC955	B-4
Q201	E-10
Q202	E-10
Q203	E-10
Q253	E-11
Q301	D-8
Q303	A-10
Q351	D-8
Q352	E-8
Q353	B-7
Q354	C-7
Q355	C-7
Q356	B-7
Q508	F-9
Q509	E-10
Q545	F-10
Q546	F-2
Q547	F-2
Q548	F-2
Q549	F-2
Q558	G-3
Q559	E-121
Q608	G-5
Q609	F-5
Q659	E-9
Q991	D-5
Q992	D-4

【MAIN BOARD】

TO VOLUME (F) (Page 44)
TO VOLUME (E) (Page 44)
(B) TO DIGITAL (Page 21)
(C) TO DIGITAL (Page 21)
(D) TO DIGITAL (Page 21)
(R) TO 5.1 INPUT (Page 38)
(A) TO DIGITAL (Page 21)
TO (G) AMP (Page 33)
TO POWER TRANSFORMER (P) (Page 55)
TO (J) S.AMP (Page 46)
TO (K) S.AMP (Page 45)
DA50ES/V55ES MODEL
(FAN)
DA50ES/V55ES MODEL
(I) TO SP TM (Page 46)
(L) TO S.AMP (Page 46)
(O) TO PS (Page 55)
(M) TO 5.1 INPUT (Page 38)
∗1:DA50ES:AEP,UK,G,EE,AUS MODEL
DA30ES/DA50ES: US,CND,E,EA,PX,MY/ V55ES MODEL
PHONO (IN)
CD (IN)
REC OUT
MD DAT
IN
REC OUT
TAPE
IN
(Q) TO AUDIO (Page 47)
(N) TO PS (Page 55)
(H) TO SP TM (Page 45)
J202
J303
【HP BOARD】
J701 PHONES
1-670-148-
1-670-139-
11 (11)

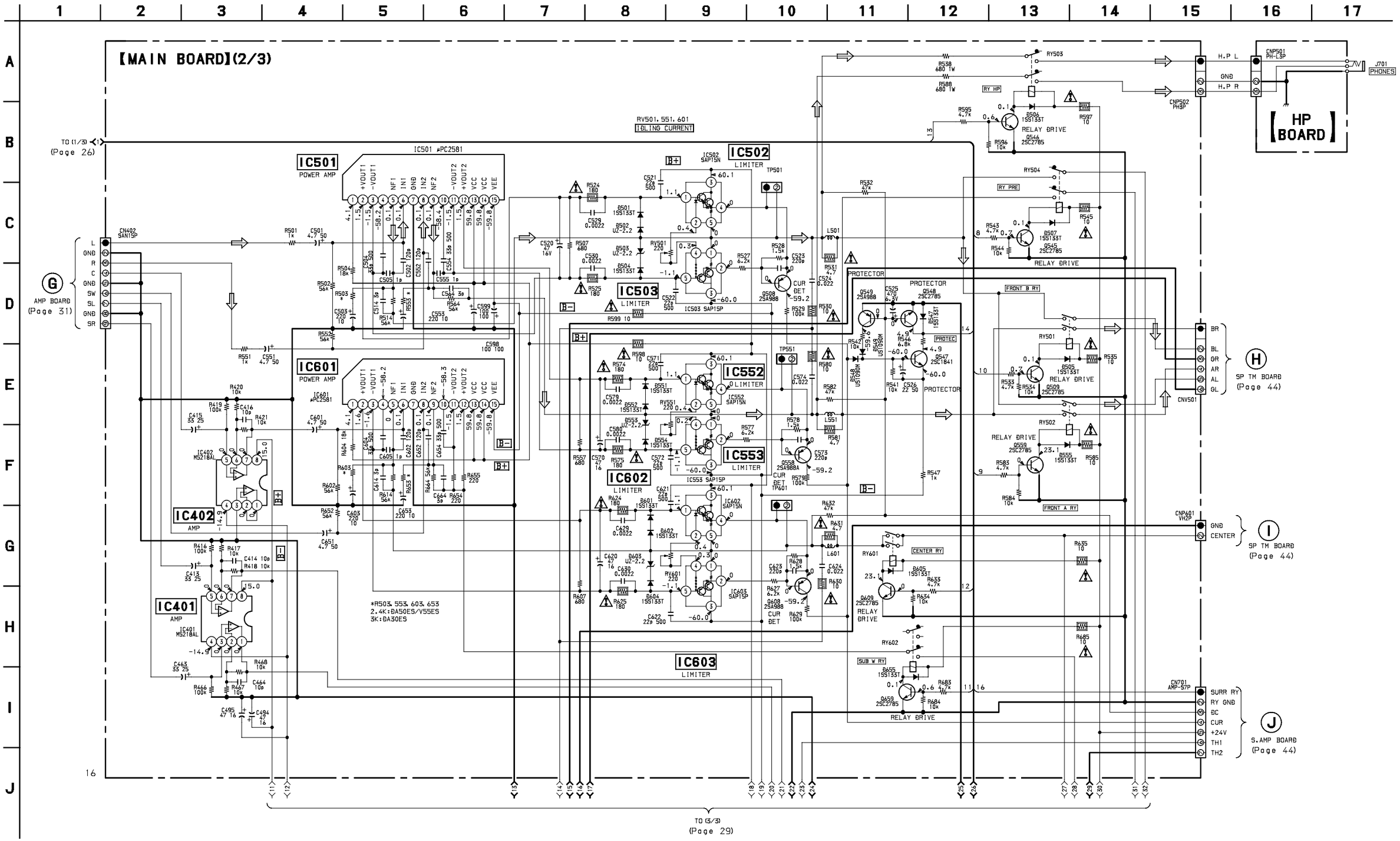
4-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —

• See page 59 for IC Block Diagrams.



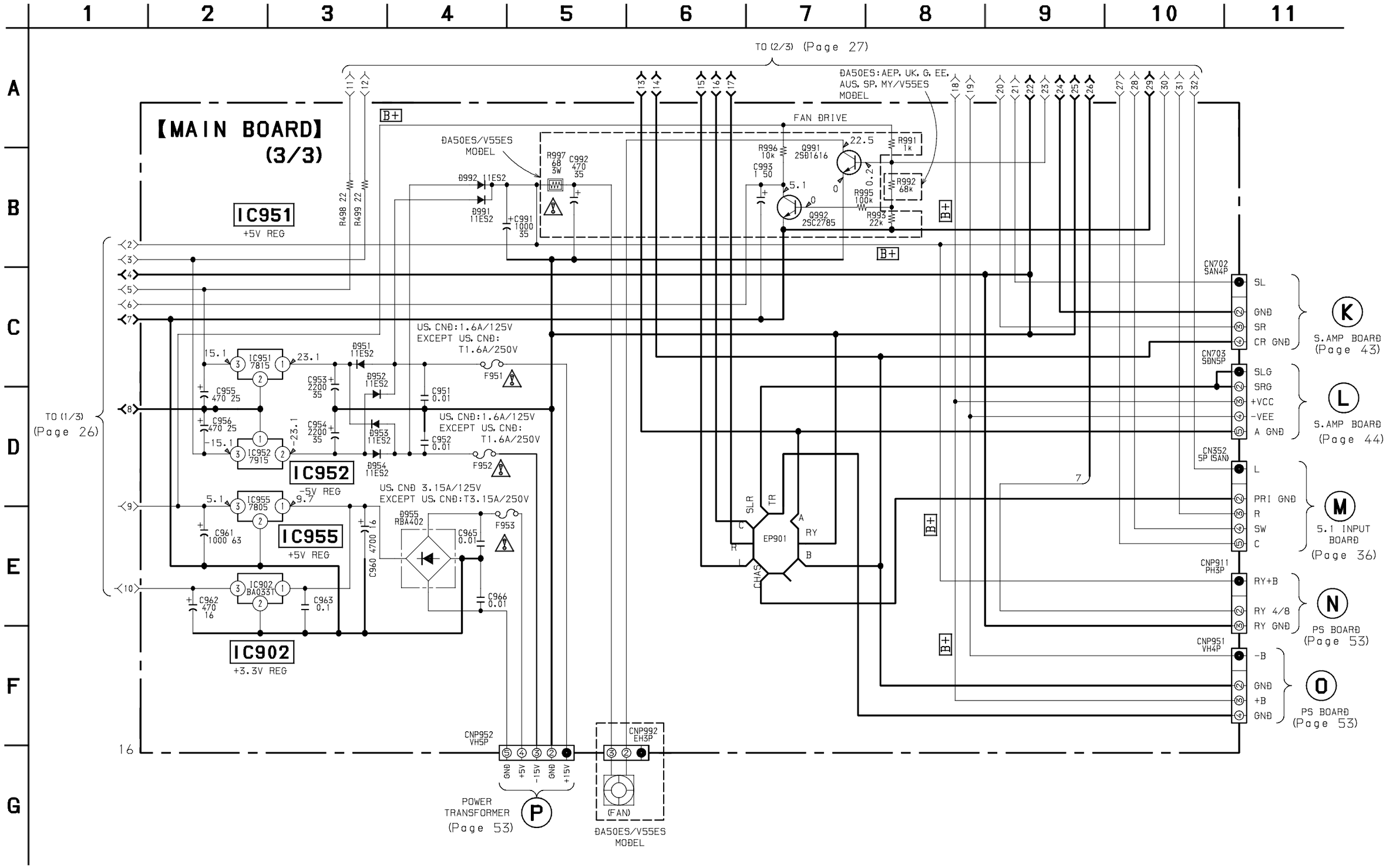
4-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —

• See page 23 for Printed Wiring Board. • See page 59 for IC Block Diagrams.



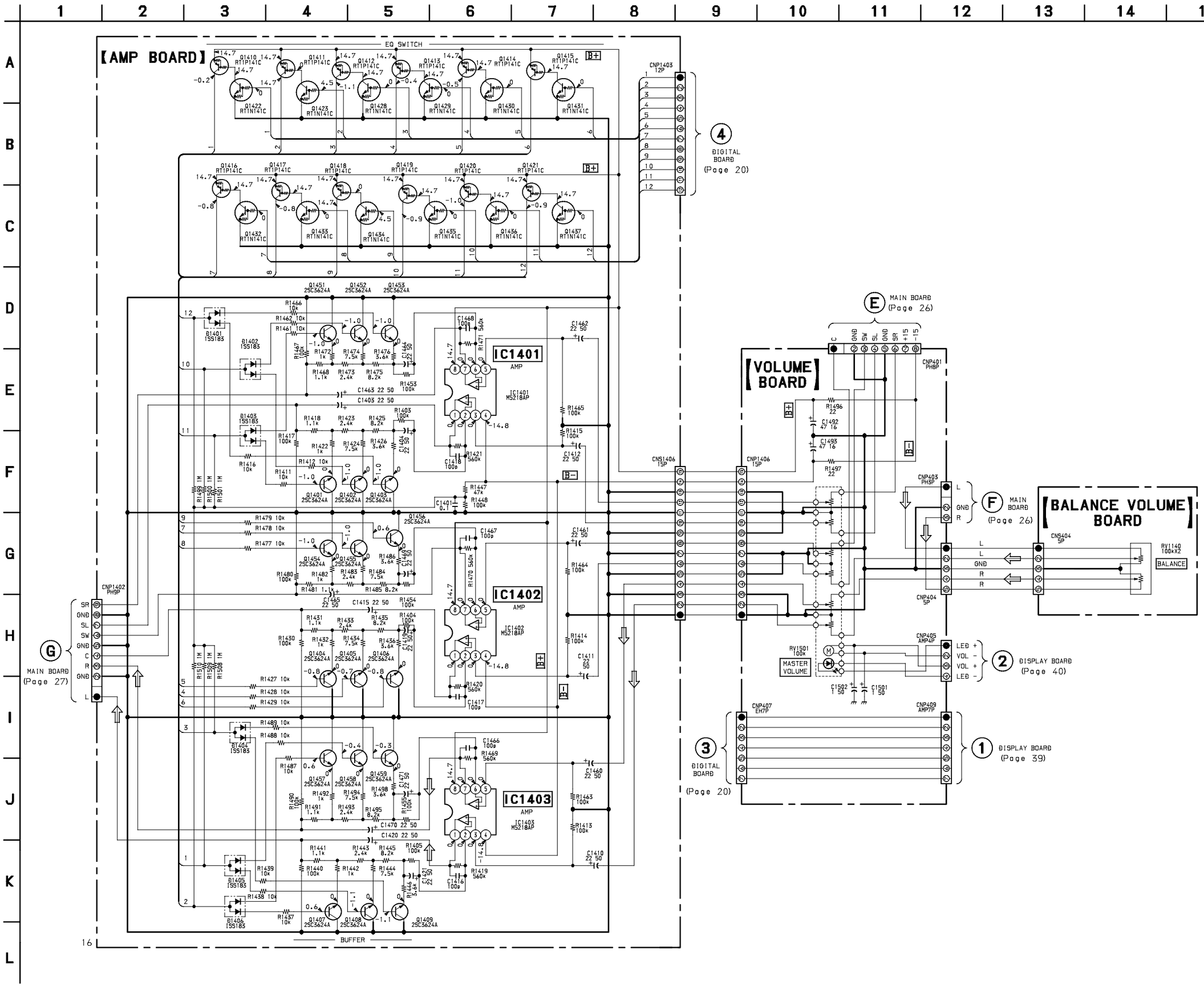
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-11. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) — • See page 23 for Printed Wiring Board.



以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-12. SCHEMATIC DIAGRAM — AMP SECTION —

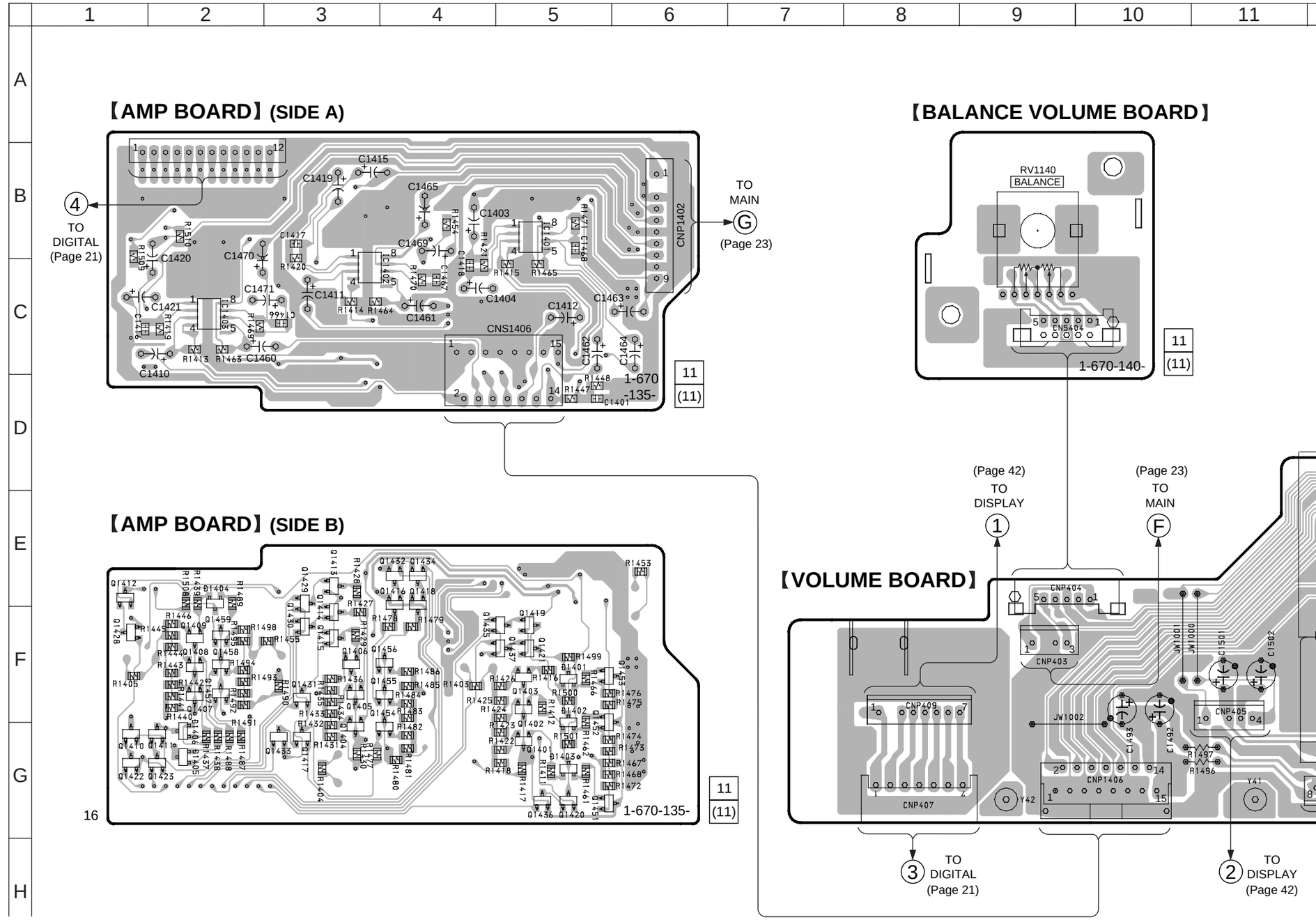


4-13. PRINTED WIRING BOARD — AMP SECTION —

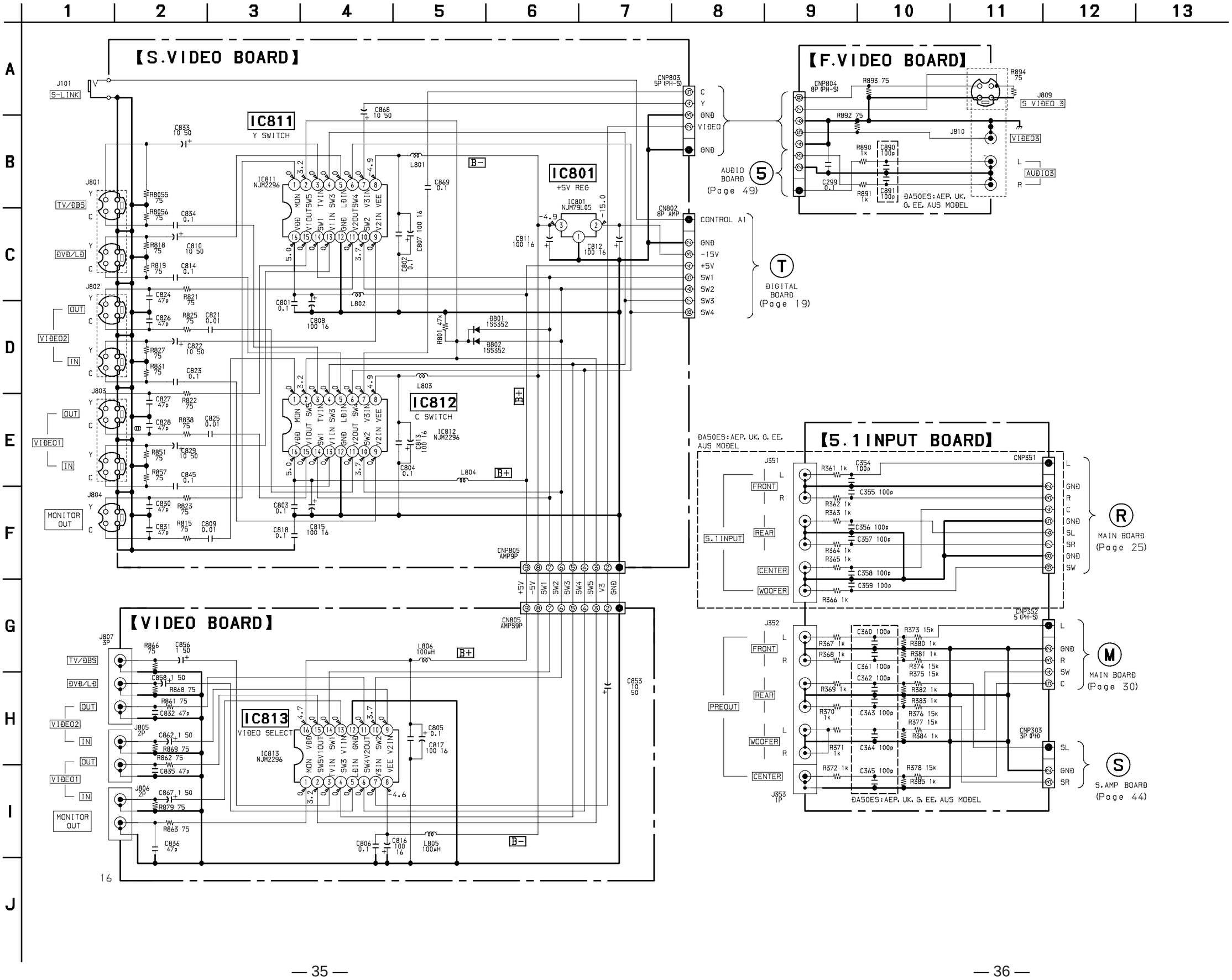
• See page 15 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D1401	F-5
D1402	G-5
D1403	G-5
D1404	F-2
D1405	G-2
D1406	G-2
IC1401	B-5
IC1402	C-3
IC1403	C-2
Q1401	G-5
Q1402	F-5
Q1403	F-5
Q1404	G-3
Q1405	F-3
Q1406	F-3
Q1407	F-2
Q1408	F-2
Q1409	F-2
Q1410	G-1
Q1411	G-2
Q1412	E-1
Q1413	E-3
Q1414	F-3
Q1415	F-3
Q1416	E-4
Q1417	G-3
Q1418	E-4
Q1419	F-5
Q1420	G-5
Q1421	F-5
Q1422	G-1
Q1423	G-2
Q1428	F-1
Q1429	E-3
Q1430	F-3
Q1431	F-3
Q1432	E-4
Q1433	G-3
Q1434	E-4
Q1435	F-5
Q1436	G-5
Q1437	F-5
Q1451	G-5
Q1452	F-5
Q1453	F-6
Q1454	G-4
Q1455	F-4
Q1456	F-4
Q1457	F-2
Q1458	F-2
Q1459	F-2



4-14. SCHEMATIC DIAGRAM — VIDEO SECTION — • See page 60 for IC Block Diagrams.

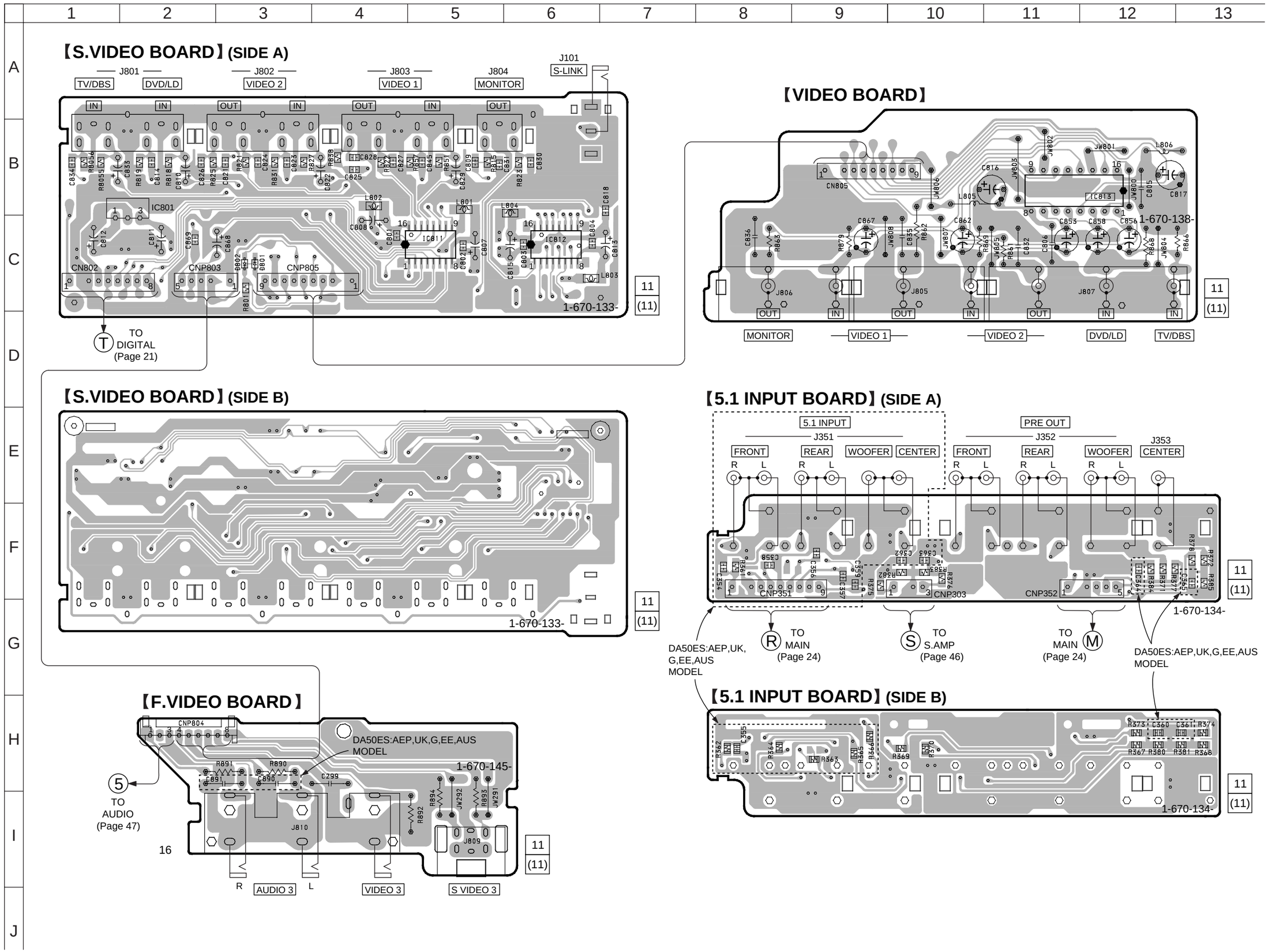


4-15. PRINTED WIRING BOARD — VIDEO SECTION —

• See page 15 for Circuit Boards Location.

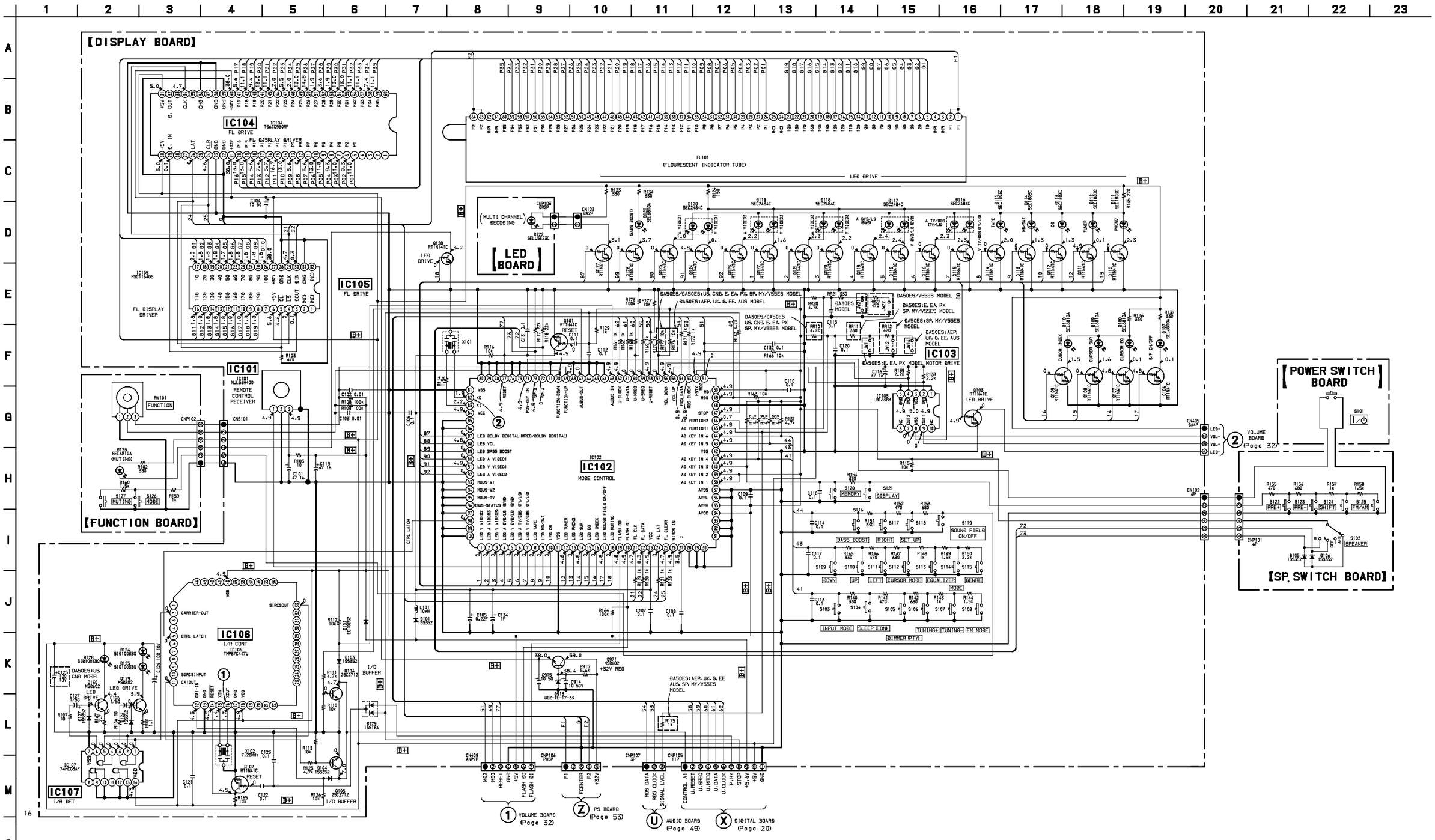
• **Semiconductor Location**

Ref. No.	Location
D801	C-3
D802	C-3
IC801	B-2
IC811	C-5
IC812	C-6
IC813	B-12



4-16. SCHEMATIC DIAGRAM — DISPLAY SECTION —

• See page 61 for IC Pin Functions. • See page 16 for Waveforms. • See page 59 for IC Block Diagrams.

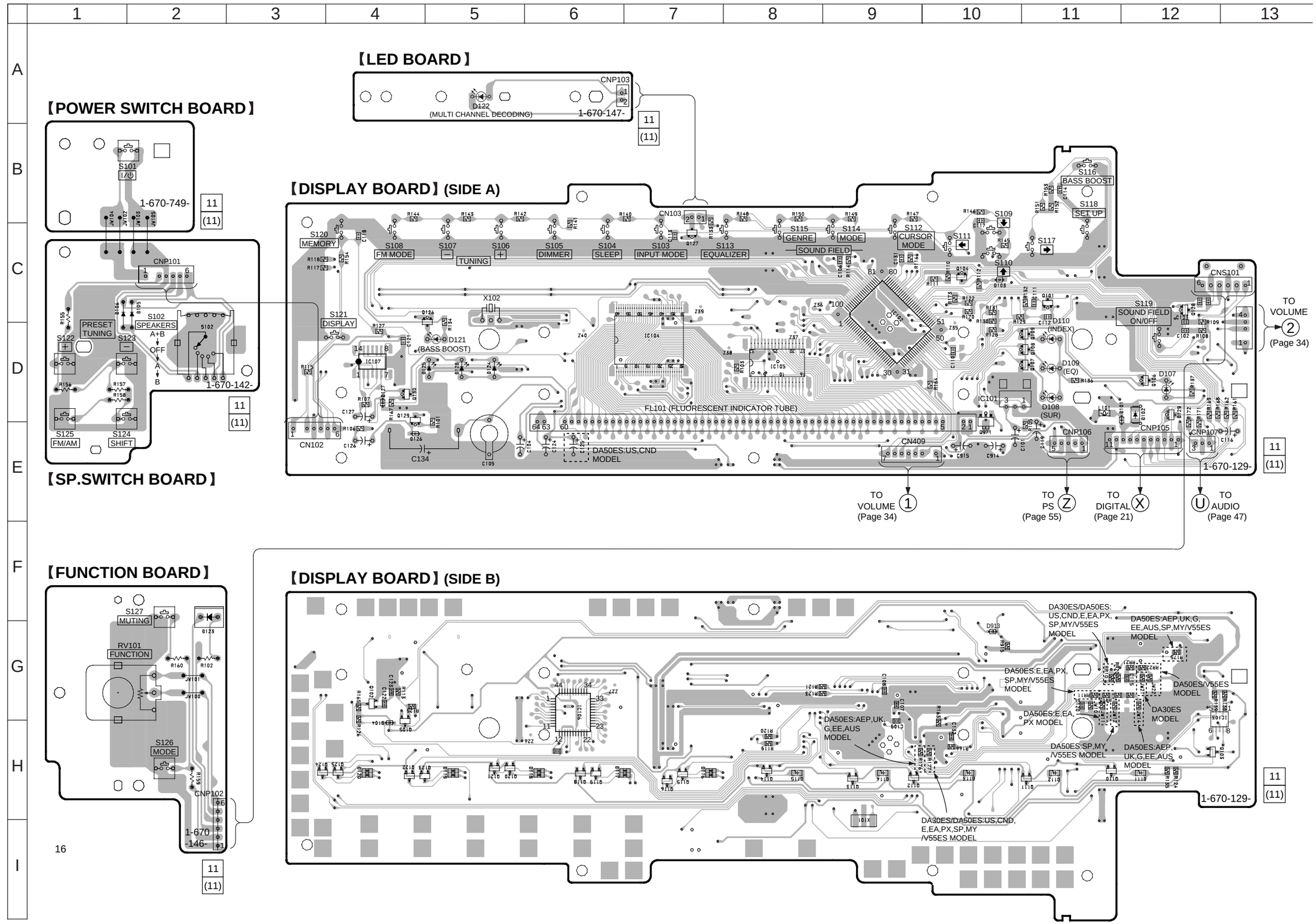


4-17. PRINTED WIRING BOARD — DISPLAY SECTION —

• See page 15 for Circuit Boards Location.

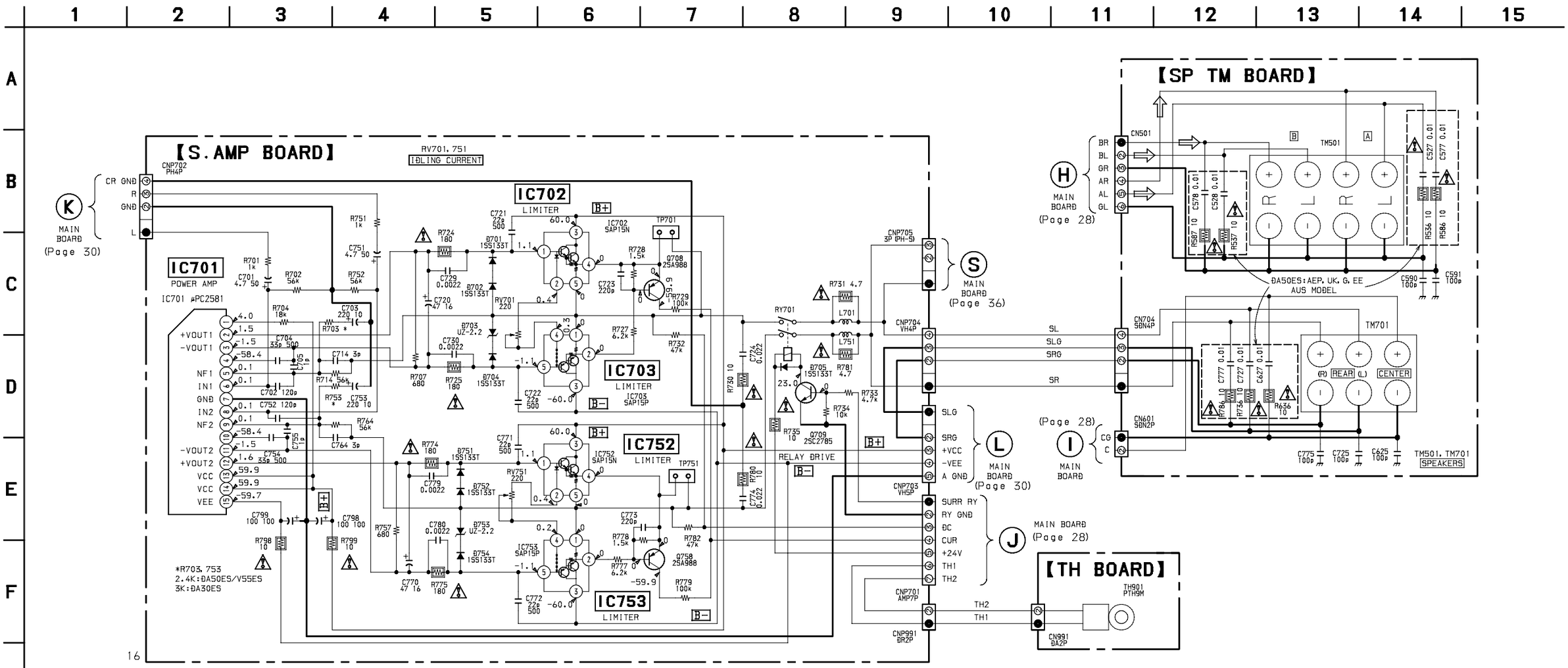
• **Semiconductor Location**

Ref. No.	Location
D101	D-11
D102	D-12
D103	C-11
D104	H-4
D105	C-2
D106	C-1
D107	D-12
D108	D-11
D109	D-11
D110	D-11
D111	H-12
D112	H-11
D113	H-10
D114	H-9
D115	H-8
D116	H-8
D117	H-7
D118	H-6
D119	H-5
D120	H-4
D121	D-5
D122	A-5
D123	F-2
D124	D-5
D125	D-5
D126	E-4
D127	D-4
D128	D-5
D129	D-12
D913	G-10
IC101	D-10
IC102	D-9
IC103	G-13
IC104	D-7
IC105	D-8
IC106	G-6
IC107	D-4
Q101	C-11
Q102	G-4
Q103	H-12
Q104	C-10
Q105	H-4
Q106	D-12
Q107	D-11
Q108	D-11
Q109	D-11
Q110	H-11
Q111	H-10
Q112	H-9
Q113	H-8
Q114	H-8
Q115	H-7
Q116	H-7
Q118	H-6
Q119	H-6
Q120	H-5
Q121	H-5
Q122	H-4
Q123	H-4
Q124	H-4
Q125	H-4
Q126	C-4
Q127	C-7
Q128	C-12
Q129	D-4
Q130	D-4
Q971	D-10



4-18. SCHEMATIC DIAGRAM — SPEAKER SECTION —

• See page 59 for IC Block Diagrams.



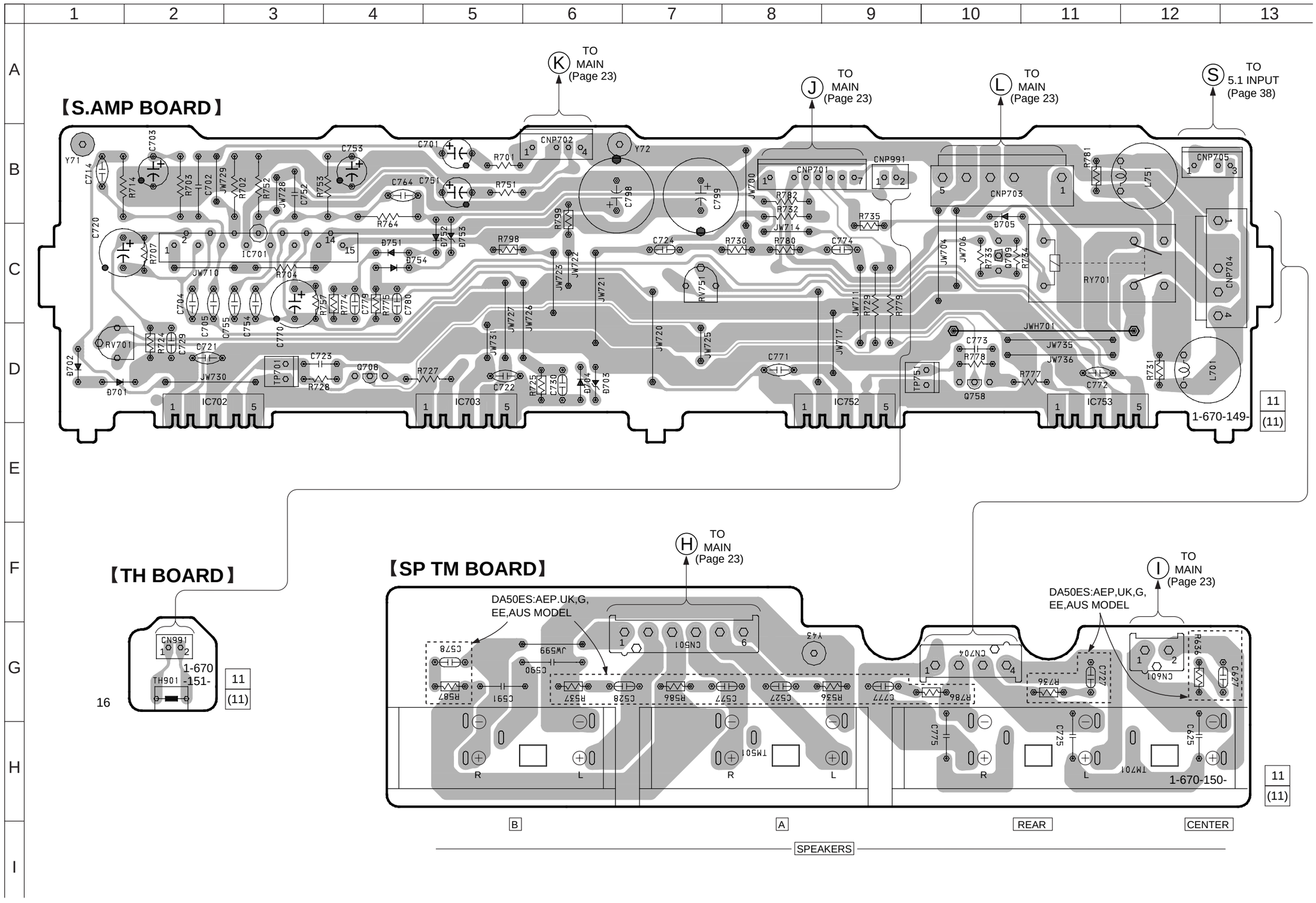
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-19. PRINTED WIRING BOARD — SPEAKER SECTION —

• See page 15 for Circuit Boards Location.

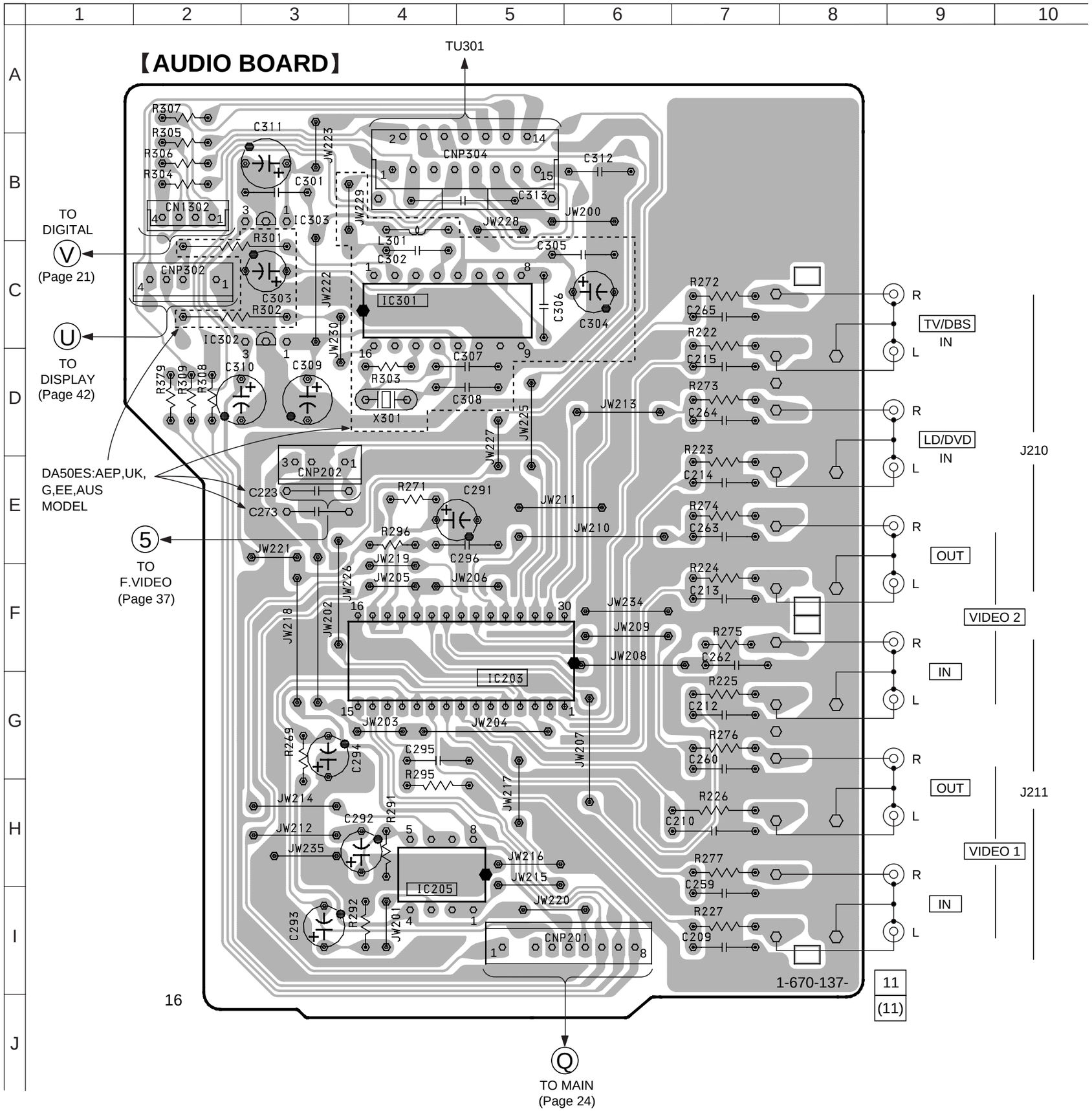
• **Semiconductor Location**

Ref. No.	Location
D701	D-1
D702	D-1
D703	D-6
D704	D-6
D705	B-10
D751	C-4
D752	C-5
D753	C-5
D754	C-4
IC701	C-3
IC702	D-2
IC703	D-5
IC752	D-9
IC753	D-11
Q708	D-4
Q709	C-10
Q758	D-10



4-20. PRINTED WIRING BOARD — AUDIO SECTION —

• See page 15 for Circuit Boards Location.

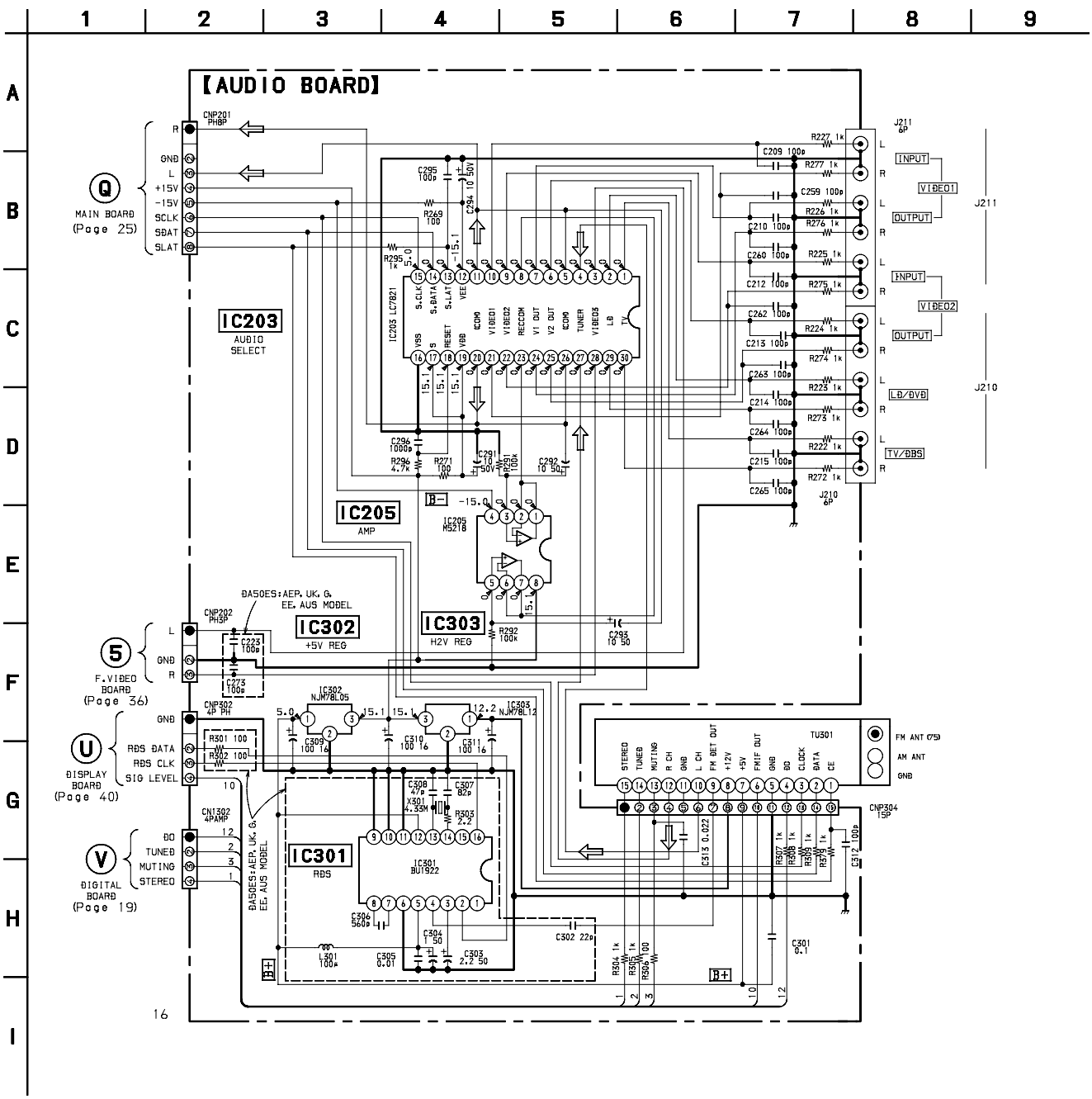


• **Semiconductor Location**

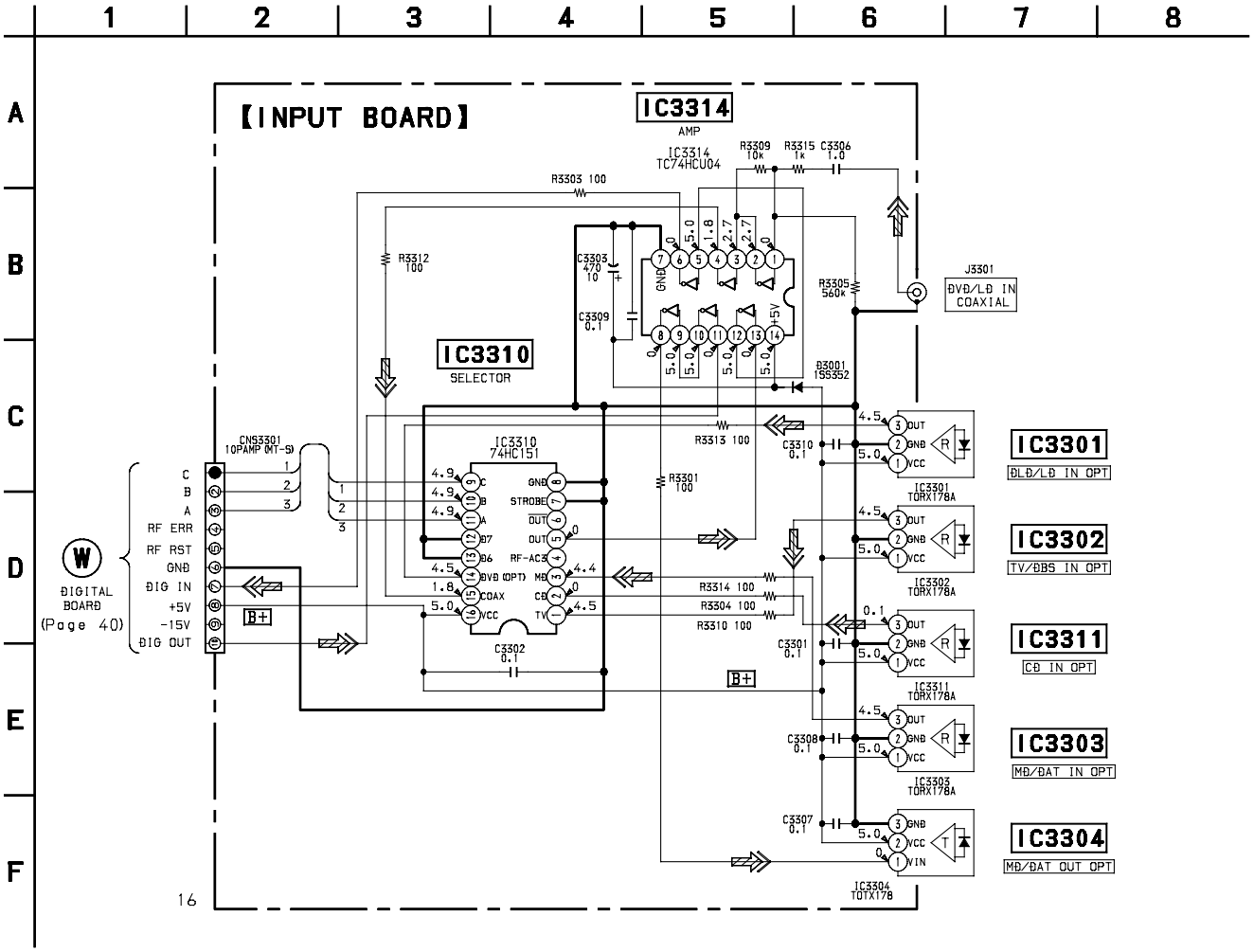
Ref. No.	Location
IC203	F-5
IC205	H-4
IC301	C-4
IC302	C-3
IC303	B-3

4-21. SCHEMATIC DIAGRAM — AUDIO SECTION —

• See page 60 for IC Block Diagrams.



4-22. SCHEMATIC DIAGRAM — INPUT SECTION —



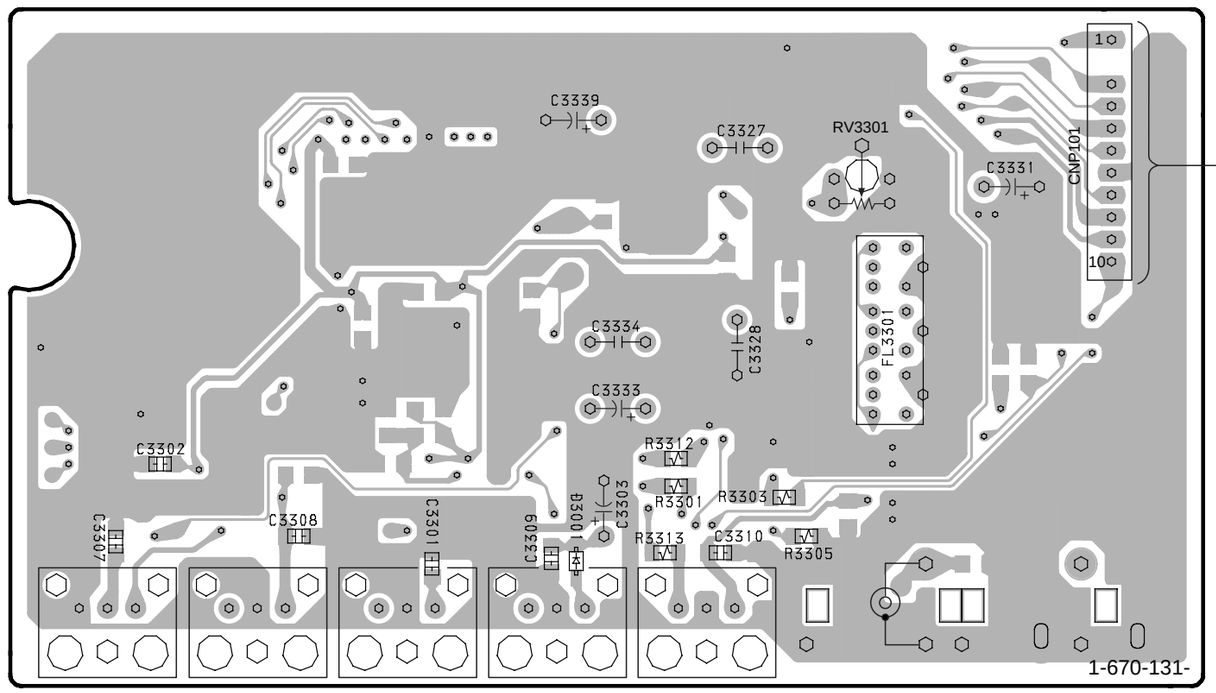
4-23. PRINTED WIRING BOARD — INPUT SECTION —

• See page 15 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D3001	D-4
IC3301	E-5
IC3302	E-4
IC3303	E-2
IC3304	E-2
IC3310	H-2
IC3311	E-3
IC3314	G-5

【INPUT BOARD】(SIDE A)



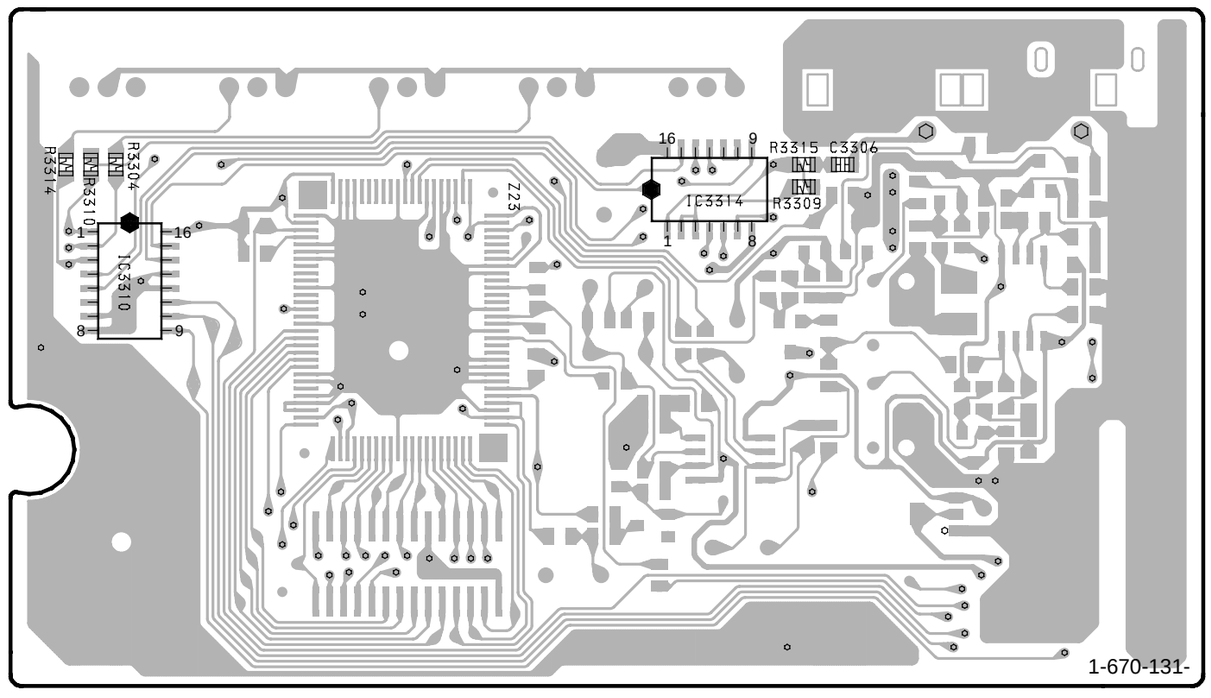
TO DIGITAL (Page 21)

11
(11)

IC3304 MD/DAT OUT OPT | IC3303 MD/DAT IN OPT | IC3311 CD IN OPT | IC3302 TV/DBS IN OPT | IC3301 DVD/LD IN OPT | J3301 DVD/LD IN COAXIAL

DIGITAL

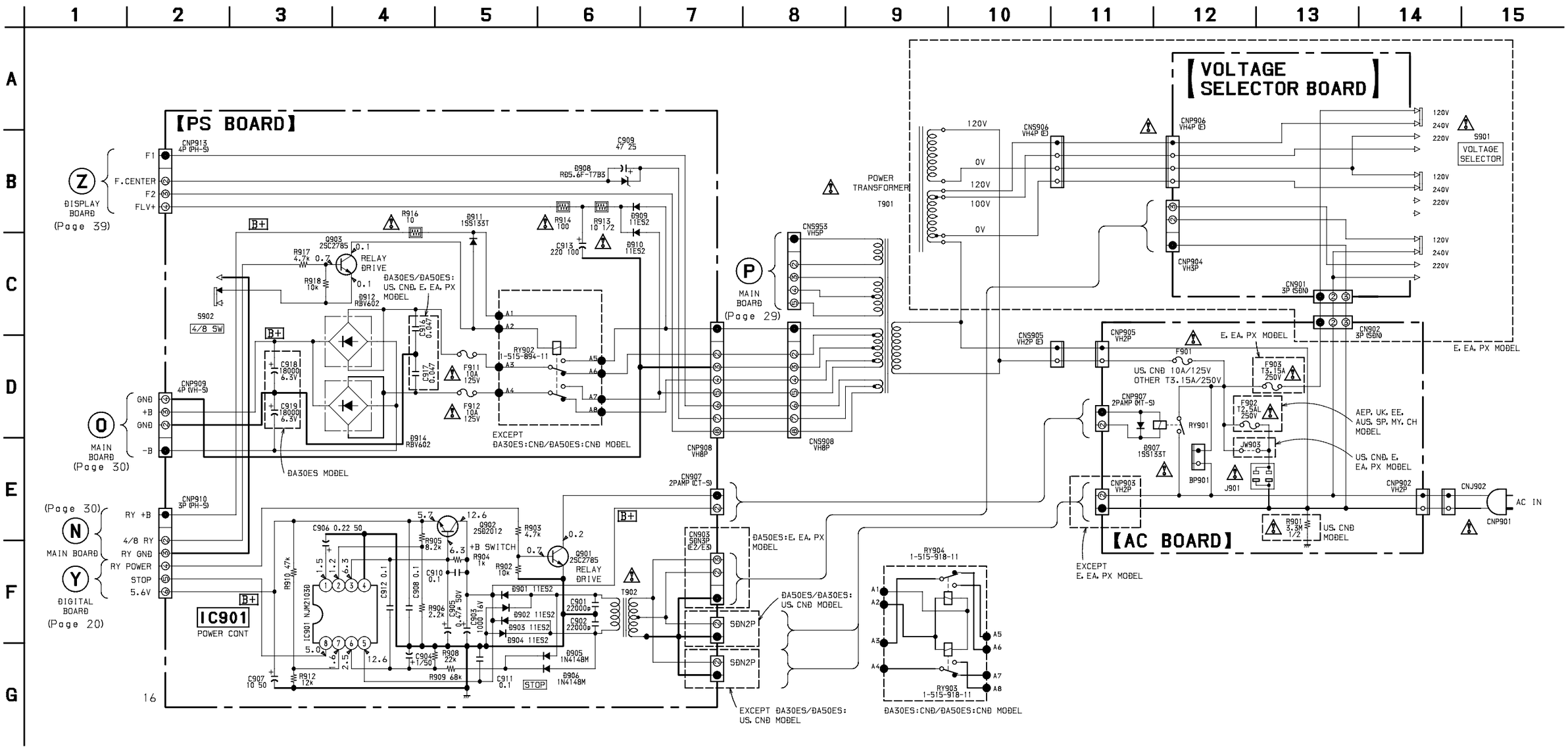
【INPUT BOARD】(SIDE B)



11
(11)

16

5-24. SCHEMATIC DIAGRAM — POWER SECTION — • See page 59 for IC Block Diagrams.



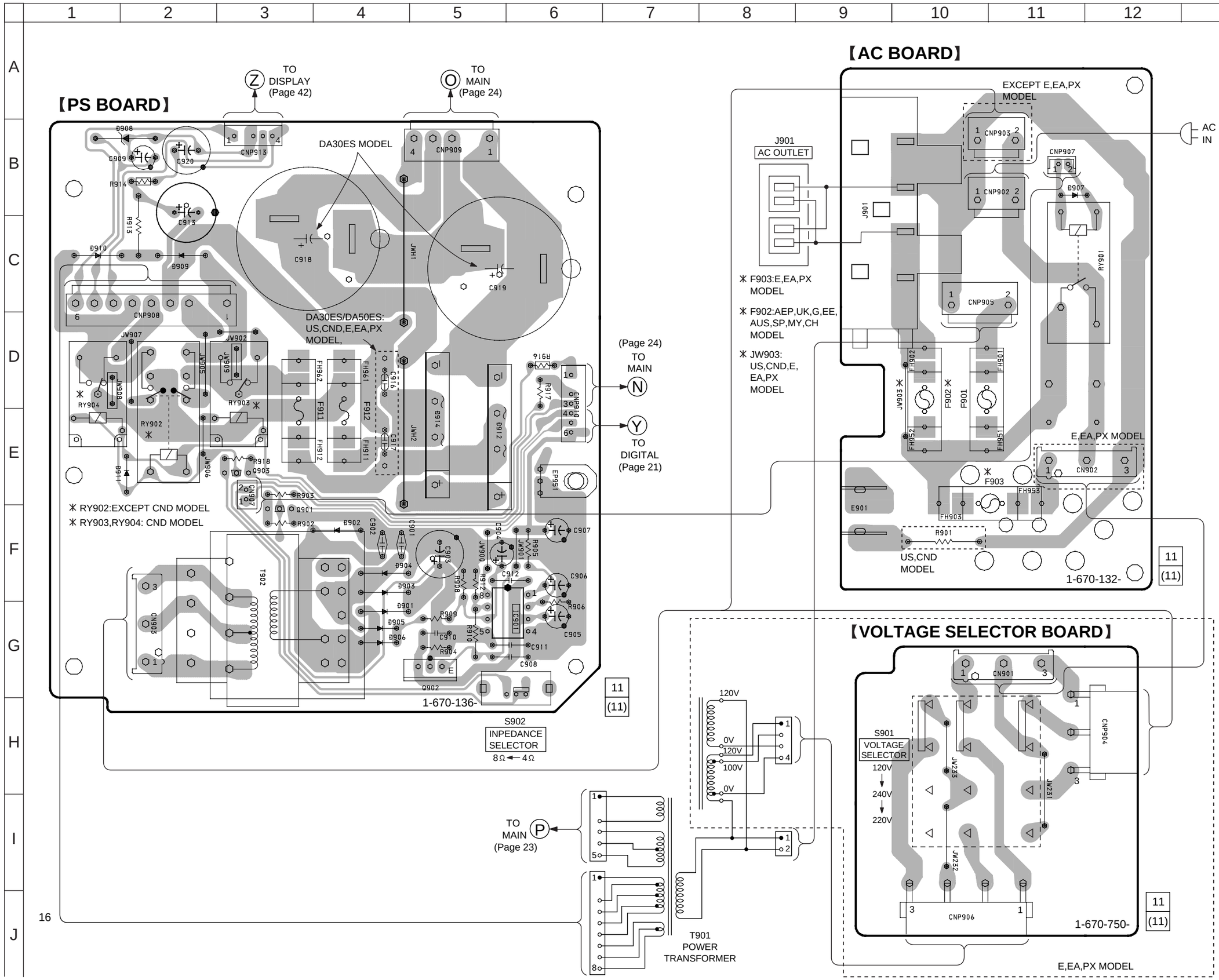
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。	**Note:** The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-25. PRINTED WIRING BOARD — POWER SECTION —

• See page 15 for Circuit Boards Location.

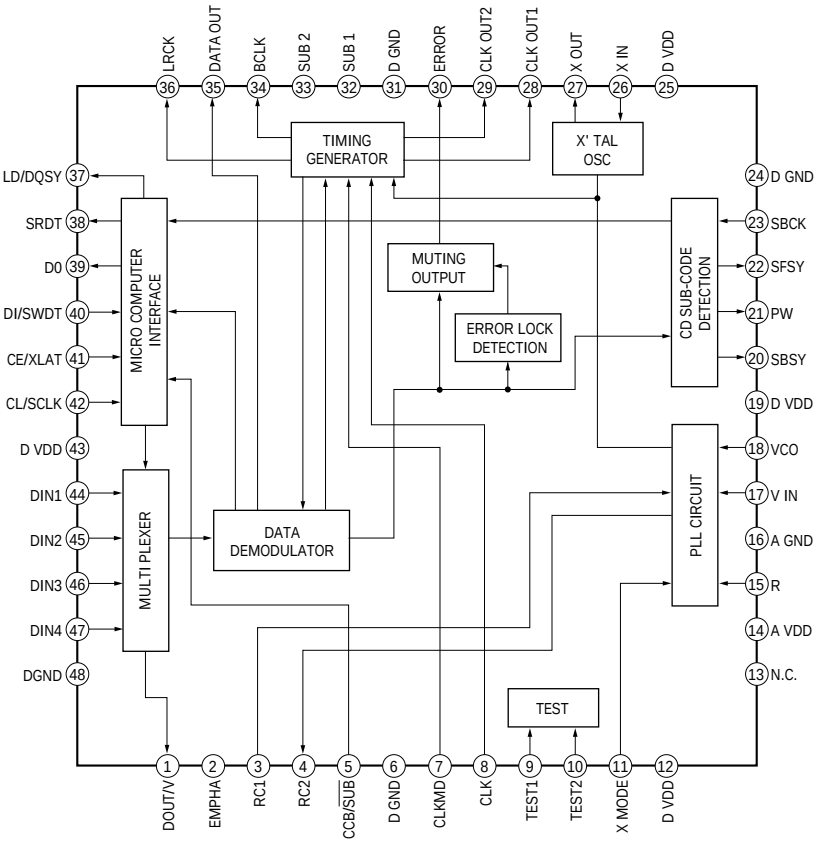
• **Semiconductor Location**

Ref. No.	Location
D901	G-4
D902	F-4
D903	F-4
D904	F-4
D905	G-4
D906	G-4
D907	B-11
D908	B-2
D909	C-1
D910	C-1
D911	E-2
D912	E-5
D914	E-5
IC901	G-6
Q901	F-3
Q902	G-5
Q903	E-3

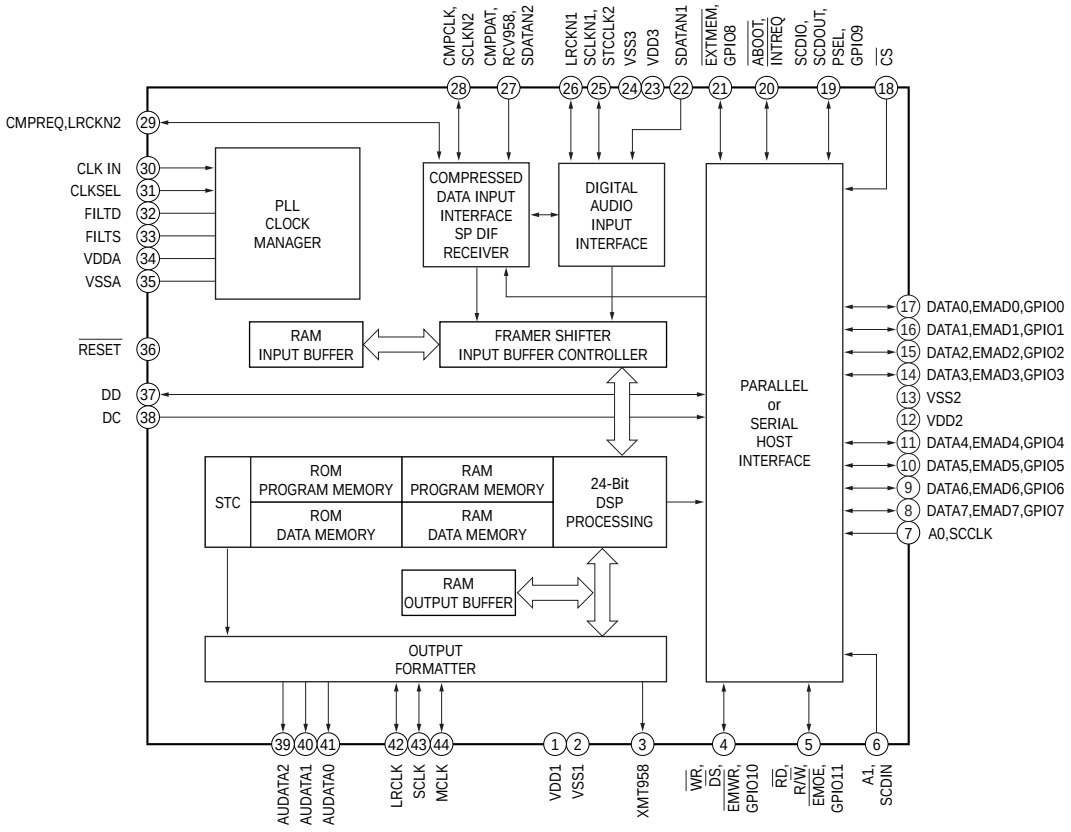


4-26. IC BLOCK DIAGRAMS

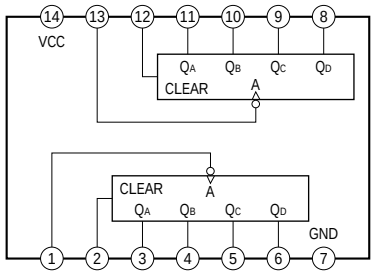
IC1101 CXD8495AQ (DIGITAL BOARD)



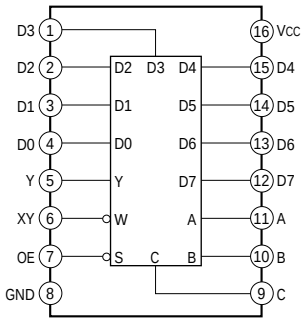
IC1106 CS4926 (DIGITAL BOARD)



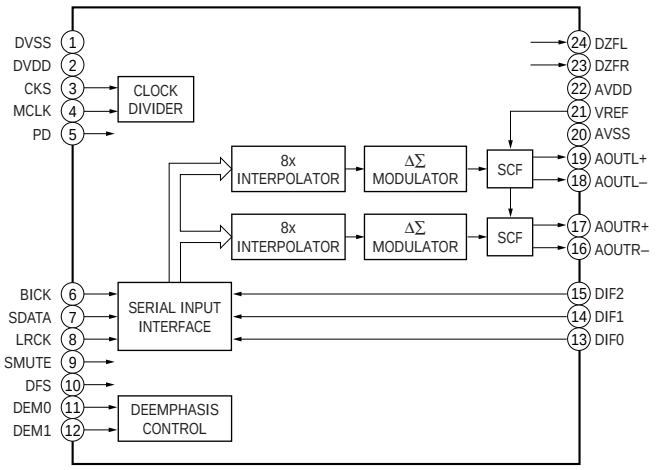
IC1109 TC74VHC393FT(EL) (DIGITAL BOARD)



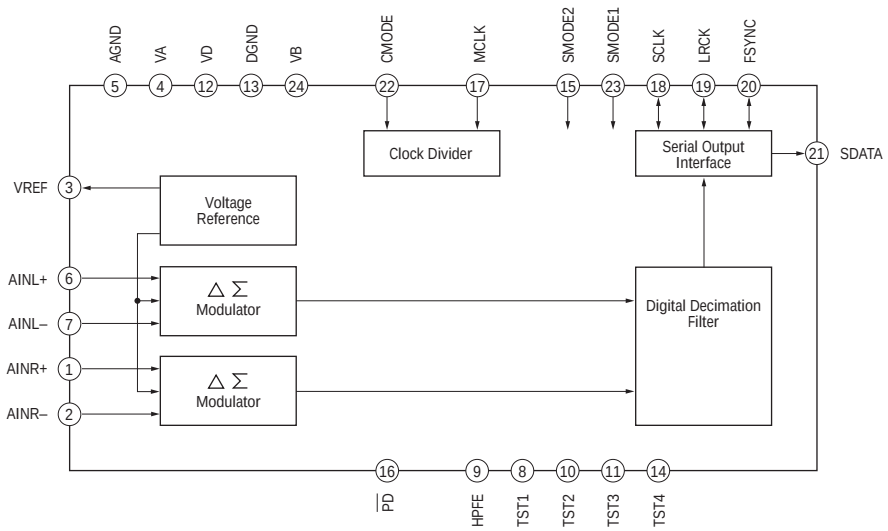
IC3310 TC74HC151AF (DIGITAL BOARD)



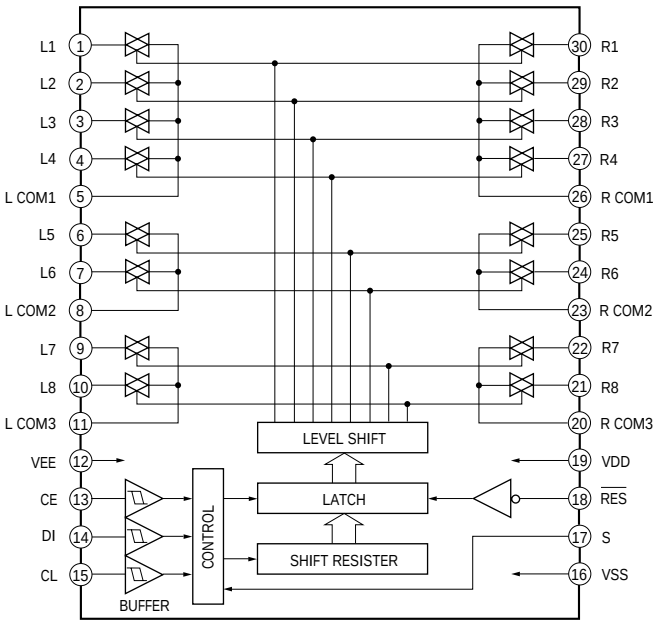
IC1202 AK4324-VF-E2 (DIGITAL BOARD)



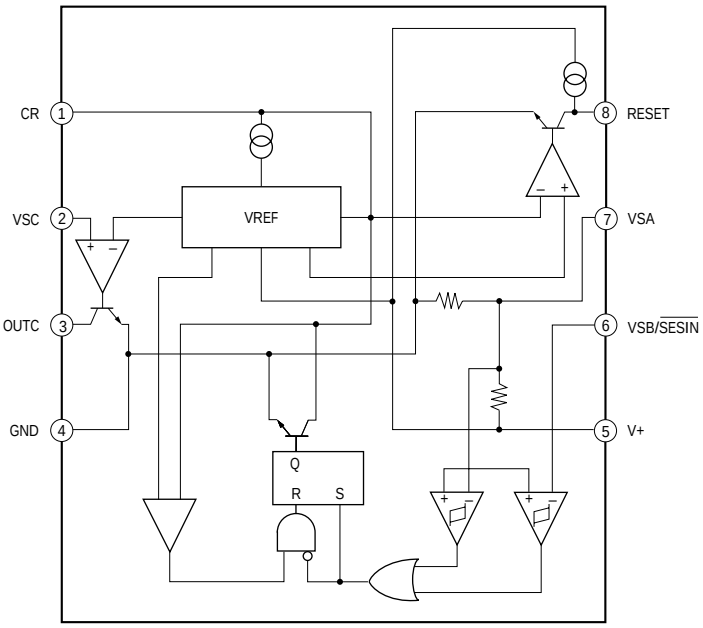
IC1210 AK5352-VF-E2 (DIGITAL BOARD)



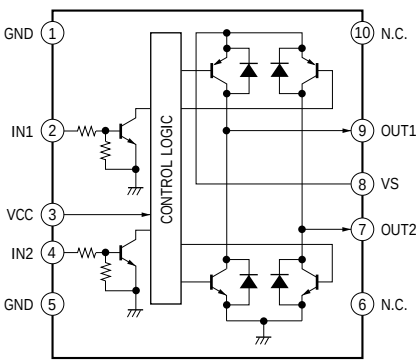
IC202,203 LC7821 (MAIN/AUDIO BOARD)



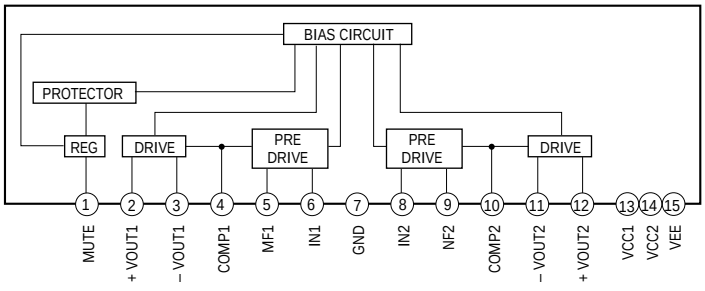
IC901 NJM2103D (PS BOARD)



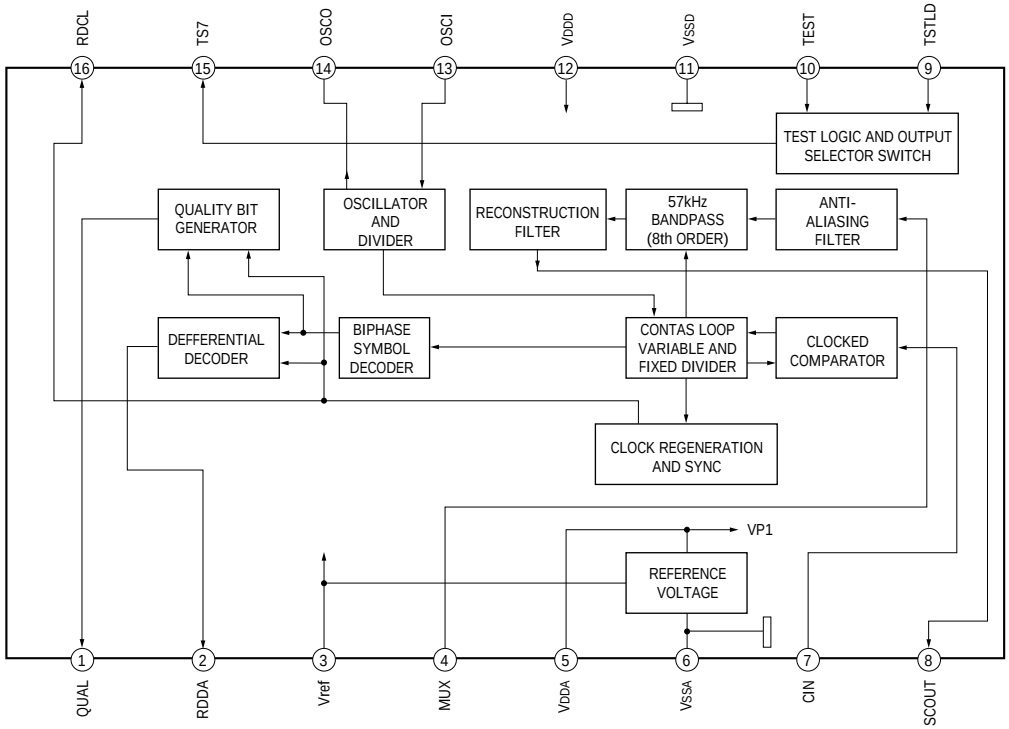
IC103 LB1638M (DISPLAY BOARD)



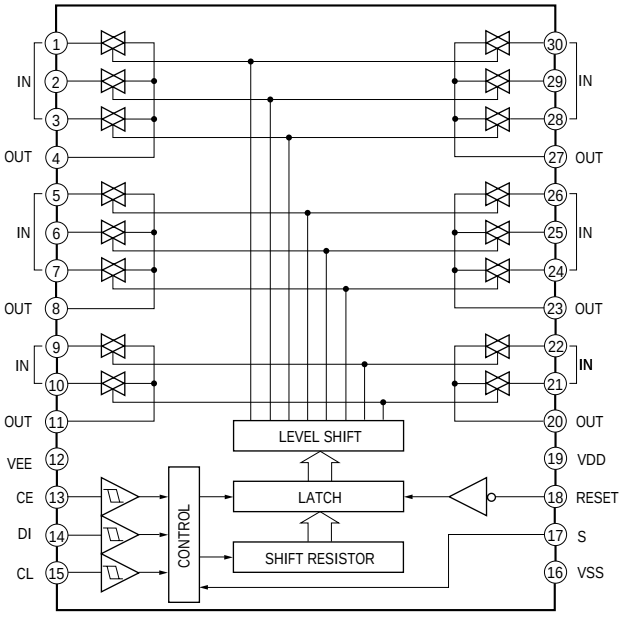
IC501,601,701 uPC2581V (S.AMP/MAIN BOARD)



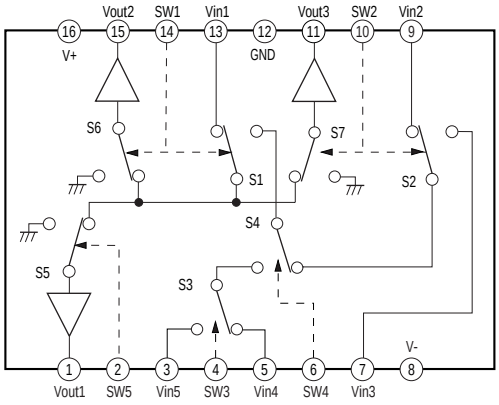
IC301 BU1922 (AUDIO BOARD)



IC351 LC7822 (MAIN BOARD)



IC811,812,813 NJM2296D (S.VIDEO/VIDEO BOARD)



3-27. IC PIN FUNCTION DESCRIPTION

IC102 MB90553PF-G-121-BND (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1	LED V VIDEO2	O	VIDEO 2 visual display data output to LED
2	LED A VIDEO3	O	VIDEO 3 audio display data output to LED
3	LED V VIDEO3	O	VIDEO 3 visual display data output to LED
4	LED A DVD/LD	O	DVD/LD audio display data output to LED
5	LED V DVD/LD	O	DVD/LD visual display data output to LED
6	LED A TV/DBS	O	TV/DBS audio display data output to LED
7	LED V TV/DBS	O	TV/DBS visual display data output to LED
8	LED TAPE	O	TAPE display data output to LED
9	LED MD/DAT	O	MD/DAT display data output to LED
10	LED CD	O	CD display data output to LED
11	VSS	—	Ground (Connected to ground)
12	LED TUNER	O	TUNER display data output to LED
13	LED PHONO	O	PHONO display data output to LED
14	LED SURR	O	CURSOR MODE SURROUND display data output to LED
15	LED EQ	O	CURSOR MODE EQ display data output to LED
16	LED INDEX	O	CURSOR MODE INDEX display data output to LED
17	LED S.F ON/OFF	O	SOUND FIELD ON/OFF display data output to LED
18	LED MUTING	O	MUTING display data output to LED
19	FLASH DO	O	FLASH DATA output
20	FLASH D1	I	FLASH DATA input
21	FL CLK	O	Clock output to fluorescent display tube
22	FL DATA	O	Data output to fluorescent display tube
23	VCC	—	Power supply +5 V
24	FL LAT	O	Fluorescent latch
25	FL CLEAR	O	Fluorescent clear
26	SIRCS IN	I	SIRCS input
27	C	—	External power regulator capacitor 0.1 is connected to this terminal
28	—	—	Not used (Connected to ground)
29	—	—	Not used (Connected to ground)
30	—	—	Not used (Connected to ground)
31	—	—	Not used (Connected to ground)
32	—	—	Not used (Connected to ground)
33	—	—	Not used (Connected to ground)
34	AVCC	—	Analog power supply +5 V
35	AVRH	—	AVRH (Connected to Analog power supply +5 V)
36	AVRL	—	AVRL (Connected to ground)
37	AVSS	—	Ground (Connected to ground)
38	AD KEY IN 1	I	Key input 1
39	AD KEY IN 2	I	Key input 2
40	AD KEY IN 3	I	Key input 3
41	AD KEY IN 4	I	Key input 4
42	VSS	—	Ground (Connected to ground)
43	AD KEY IN 5	I	Key input 5
44	AD KEY IN 6	I	Key input 6
45	AD VERSION 1	I	Version input 1
46	AD VERSION 2	I	Version input 2
47	STOP	I	Stop input
48	—	—	Not used (Connected to ground)
49	MD0	I	MD 0
50	MD1	I	MD 1

Pin No.	Pin Name	I/O	Description
51	MD2	I	MD 2
52	HSTX	I	Hardware STANDBY input
53	RDS CLOCK	I	RDS clock input
54	RDS DATA	I	RDS data input
55	VOL UP	O	Volume up output
56	VOL DOWN	O	Volume down output
57	IRQ6	I	SP switch S102
58	U-RESET	O	Reset output
59	U-SREQ	I	Slave request and data input
60	U-MREQ	O	Master request output
61	U-DATA	O	Master data output
62	U-CLOCK	O	Master clock output
63	AUBUS-IN	I	Audio bus input
64	—	—	Not used (Connected to ground)
65	—	—	Not used (Connected to ground)
66	—	—	Not used (Connected to ground)
67	AUBUS-OUT	O	Audio bus output
68	—	—	Not used (Connected to ground)
69	FUNCTION-UP	I	Function encoder up input
70	FUNCTION-DOWN	I	Function encoder down input
71	—	—	Not used (Connected to ground)
72	SP-A	I	Speaker A select switch input
73	SP-B	I	Speaker B select switch input
74	POW-KEY IN	I	Power key input
75	—	—	Not used (Connected to ground)
76	—	—	Not used (Connected to ground)
77	RESET	I	Reset input
78	—	—	Not used (Connected to ground)
79	—	—	Not used (Connected to ground)
80	—	—	Not used (Connected to ground)
81	VSS	—	Not used (Connected to ground)
82	X0	—	External crystal is connected to this terminal
83	X1	—	External crystal is connected to this terminal
84	VCC	—	Power supply +5 V
85	—	—	Not used (Connected to ground)
86	—	—	Not used (Connected to ground)
87	LED DOLBY DIGITAL	O	MULTI FORMAT DECODE display data output to LED
88	LED VOL	O	VOLUME display data output to LED
89	LED BASS BOOST	O	BASS BOOST display data output to LED
90	LED A VIDEO1	O	VIDEO 1 audio display data output to LED
91	LED V VIDEO1	O	VIDEO 1 visual display data output to LED
92	LED A VIDEO2	O	VIDEO 2 audio display data output to LED
93	MBUS-V1	I	V1 input form MBUS (Connected to ground)
94	MBUS-V2	I	V2 input form MBUS (Connected to ground)
95	MBUS-TV	I	TV input form MBUS (Connected to ground)
96	MBUS-STATUS	I	STATUS input form MBUS (Connected to ground)
97	—	—	Not used (Connected to ground)
98	—	O	CTRL latch
99	—	—	Not used (Connected to ground)
100	—	—	Not used (Connected to ground)

IC 1201 MB90574PFV-G-127-BND (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	RFERR	I	RF demodulator error or signal input
2	RERESET	O	RF demodulator/DIR reset
3	SW6	O	Woofer gain control 6
4	SW12	O	Woofer gain control 12
5	REAR3	O	Rear gain control 3
6	REAR6	O	Rear gain control 6
7	REAR12	O	Rear gain control 12
8	VCC	—	Power supply +5 V
9	S1NI	I	UART input. Used for rewriting flash memory
10	SOT0	O	UART output. Used for rewriting flash memory
11	—	—	Not used (Connected to ground)
12	SIN1	O	Test pin
13	SOT1	I	Surround mute in
14	ANA/DIG	O	Analog/digital selection (SN74HC157)
15	SCDIN	I	To CS4923 data input
16	SCCLK	O	To CS4923 clock
17	CS	O	To CS4923 chip select
18	SCDIO/OUT	O	To CS4923 SPI data output
19	INTREQ	I	To CS4923 interrupt request
20	RESET	O	To CS4923 reset
21	XHDWR	O	To CXD2712 HCIF data write
22	XHDRD	O	To CXD2712 HCIF data read
23	HRDY	I	To CXD2712 HCIF ready
24	XHDCS	O	To CXD2712 HCIF chip select
25	HD0	I/O	To CXD2712 HCIF data input/output
26	HD1	I/O	To CXD2712 HCIF data input/output
27	HD2	I/O	To CXD2712 HCIF data input/output
28	HD3	I/O	To CXD2712 HCIF data input/output
29	HD4	I/O	To CXD2712 HCIF data input/output
30	HD5	I/O	To CXD2712 HCIF data input/output
31	HD6	I/O	To CXD2712 HCIF data input/output
32	HD7	O	To CXD2712 HD 7
33	VSS	—	Ground
34	C	—	External power regulator capacitor 0.1 u is connected to this terminal
35	HA0	O	To CXD2712 HCIF address
36	XRST	O	To CXD2712 reset
37	SOD	I	To CXD2712 LFE detection
38	DVCC	—	Digital power supply +5 V
39	DVSS	—	Digital ground
40	D/AINT	O	DA AK4324 reset
41	SMUTE	O	DA AK4324 muting
42	AVCC	—	Analog power supply +5 V
43	AVR+	—	Power supply +5 V
44	AVR-	—	Ground
45	AVSS	—	Ground
46	A/DINT	O	AD AK5352 reset
47	—	—	Not used (Not connected, open)
48	EVSTB	O	To TC9299 strobe
49	EVDATA	O	To TC9299 data
50	EVCLK	O	To TC9299 clock

Pin No.	Pin Name	I/O	Description
51	DISPMR	I	Display master request (Connected to MB90570 U.MREQ)
52	DISPDATA	I	Display data (Connected to MB90570 U.DATA)
53	SLVDATA/REQ	O	Slave data/request (Connected to MB90570 U.SREQ)
54	VCC	—	Power supply +5 V
55	DISPCLK	I	Display clock (Connected to MB90570 U.CLOCK)
56	S.LAT	O	To tuner LC7821 latch
57	S.DATA	O	To tuner LC7821 data
58	S.CLK	O	To tuner LC7821 clock
59	—	—	Not used (Connected to ground)
60	DATAIN	I	PLL data input
61	AUTOSTOP	I	Auto stop input
62	STEREO	I	Stereo input
63	VSS	—	Ground
64	STOP	I	AC power check
65	—	—	Not used (Connected to ground)
66	—	—	Not used (Connected to ground)
67	ERROR	O	Error output LC8904
68	—	—	Not used (Connected to ground)
69	—	—	Not used (Connected to ground)
70	—	—	Not used
71	VERSION1	I	U or CED or J
72	VERSION2	I	U or CED or J
73	X1A	—	Not used (Not connected, open)
74	X0A	—	Not used (Not connected, open)
75	SRDT	I	To LC8904AQ C-bit
76	SWDT	O	To LC8904AQ data
77	XLAT	O	To LC8904AQ latch
78	SCLK	O	To LC8904AQ clock
79	PROTEC	I	Protector input
80	VIDEO(SW4)	O	To NJM2296 video select switch 4
81	VIDEO(SW3)	O	To NJM2296 video select switch 3
82	VIDEO(SW2)	O	To NJM2296 video select switch 2
83	VIDEO(SW1)	O	To NJM2296 video select switch 1
84	ACMUTE	—	IC muting (Not connected, open)
85	F.MUTE	O	Function muting
86	HSTX	—	Hardware standby (Connected to power supply +5 V)
87	MD2	O	MD 2
88	MD1	—	MD 1 (Connected to power supply +5 V)
89	MD0	O	MD 0
90	RESET	I	Reset
91	VSS	—	Ground (Connected to ground)
92	X0	—	External ceramic filter 4 MHz is connected to this terminal
93	X1	—	External ceramic filter 4 MHz is connected to this terminal
94	VCC	—	Power supply +5 V
95	PO0	—	Flash memory rewrite (Connected to ground)
96	PO1	—	Flash memory rewrite (Connected to ground)
97	TUNERMUTE	O	Tuner muting
98	SURRMUTE	O	Surround muting
99	RY-4/8	O	4/8 relay
100	—	—	Not used

Pin No.	Pin Name	I/O	Description
101	RY-FRONT/A	O	Front speaker A relay
102	RY-FRONT/B	O	Front speaker B relay
103	RY-CENTER	O	Center speaker relay
104	RY-REAR	O	Rear speaker relay
105	WOOFER-RY	O	Sub woofer relay
106	RY-HP	O	Headphones relay
107	RY-POWER	O	Power relay
108	RY-DIRECT-PASS	O	Direct/pass relay
109	DIG-IN2	I	Digital input select 2 (SN74HC151)
110	DIG-IN1	I	Digital input select 1 (SN74HC151)
111	DIG-IN0	I	Digital input select 0 (SN74HC151)
112	TEST0	—	Test port 0 (Not connected, open)
113	FRONT4	O	Front gain control 4
114	FROUT8	O	Front gain control 8
115	FRONT16	O	Front gain control 16
116	C3	O	Center gain control 3
117	C6	O	Center gain control 6
118	C12	O	Center gain control 12
119	VSS	—	Ground
120	SW3	O	Woofer gain control 3

IC1101 CXD8495AQ (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	DOUT/V	O	EIAJ data and parity flag output terminal
2	EMPHA	O	Emphasis monitor output terminal ("H" = ON)
3	RC1	I	RC oscillator input terminal
4	RC2	O	RC oscillator output terminal
5	CCB/$\overline{\text{SUB}}$	I	Microprocessor I/F select input terminal (CCB: H, $\overline{\text{SUB}}$: L) (Connected to ground)
6	D. GND	—	Digital ground
7	128/$\overline{256}$	O	Clock output select terminal ("L" = 256 fs, "H" = 128 fs) (Connected to ground)
8	$\overline{384}$/512	I	Clock input select terminal ("H" = 512 fs, "L" = 384 fs)
9	TEST	I	Test terminal (Connected to ground)
10	TEST	I	Test terminal (Connected to ground)
11	RESET	I	Reset input terminal
12	D. +5V	—	Digital power supply 0.5 V
13	—	—	Not used (Not connected, open)
14	A. +5V	—	Analog power supply +5 V
15	R	I	VCO oscillation band adjustment input terminal
16	A. GND	—	Analog ground
17	VCO IN	I	VCO free-running frequency setting input terminal
18	VCO	O	External LPF is connected to this terminal for PLL
19	D. +5V	—	Digital power supply +5 V
20	SBSY	O	CD subcode I/F and block sync output terminal
21	PW	O	CD subcode I/F and data output terminal
22	SFSY	O	CD subcode I/F and frame sync output terminal
23	SB CLK	I	CD subcode I/F and shift clock input terminal for data reading
24	D. GND	—	Digital ground
25	D. +5V	—	Digital power supply +5 V
26	XIN	I	Crystal oscillator input terminal
27	XOUT	O	Crystal oscillator output terminal
28	CLK OUT	O	VCO and crystal oscillator clock output terminal
29	CLK OUT	O	256fs or 128fs clock output terminal (Selected by CLKMD terminal)
30	ERROR	O	Error mute output terminal
31	D. GND	—	Digital ground
32	SUB1	O	Sampling frequency monitor output terminal
33	SUB2	O	Sampling frequency monitor output terminal
34	BCK	O	Bit clock output terminal
35	DATA OUT	O	Audio data output terminal
36	LRCK	O	L, R clock output terminal (L-ch: H, R-ch: L)
37	LD/DQSY	O	Microprocessor I/F and subcode Q data sync output terminal
38	SRDT	O	Microprocessor I/F. When CCB/SUB is L, data output terminal (3-state output)
39	DO	O	Microprocessor I/F. When CCB/SUB is H, data output terminal (high level open drain output) (Not connected)
40	DI/SWDT	I	Microprocessor I/F. Data input terminal
41	CE/XLAT	I	Microprocessor I/F. Chip enable/latch input terminal
42	CL/SCLK	I	Microprocessor I/F. Clock input terminal
43	D. +5V	—	Digital power supply +5 V
44	DIN1	I	Built-in amplifier data input terminal (Connected to ground)
45	DIN2	I	Built-in amplifier data input terminal (Connected to ground)
46	DIN3	I	Built-in amplifier data input terminal (Connected to ground)
47	DIN4	I	Built-in amplifier data input terminal
48	D. GND	—	Digital ground

IC1112 CXD2712R (DIGITAL BOARD)

Pin No.	Pin Name	I/O	Description
1	VSS3	—	Ground
2 - 5	SOA - SOD	O	Serial data output
6,7	ECJ0, ECJ1	I	Conditional jump input terminal (7 pin: Connected to ground)
8	—	—	Not used (Connected to ground)
9	XHDWR	I	HCIF data write
10	XHDRD	I	HCIF data read
11	VSS4	—	Ground
12	VDD2	—	Power supply +3.3 V
13	HRDY	O	HCIF ready signal. Open drain
14	XHDCS	I	HCIF chip select
15	HA0	I	HCIF address input
16 -20	HD0 - HD4	I/O	HCIF data input/output
21	VSS5	—	Ground
22	VDD3	—	Power supply +3.3 V
23 - 25	HD5 - HD7	I/O	HCIF data input/output
26	$\overline{\text{XRST}}$	I	Reset input "L": active
27 -30	—	—	Test data output. Not used. (Not connected)
31	VSS6	—	Ground
32 - 40	SD0 - SD8	I/O	External RAM data input/output
41	VSS7	—	Ground
42	VDD4	—	Power supply +3.3 V
43 -49	ED9 - ED15	I/O	External RAM data input/output
50	—	—	Test data input. Not used. (Connected to ground)
51	VSS8	—	Ground
52	VDD5	—	Power supply +3.3 V
53 -60	ED16 - ED23	I/O	External RAM data input/output
61	VSS9	—	Ground
62 -69	ED24 - ED31	I/O	External RAM data input/output
70	XOE	O	External RAM output cable
71	VSS10	—	Ground
72	VDD6	—	Power supply +3.3 V
73	CAS	O	External RAM column address strobe Not used. (Not connected)
74	XWE	O	External RAM write enable
75	RAS	O	External RAM raw address strobe. Not used. (Not connected)
76 -80	EA0 - EA4	I/O	External RAM address output/test data input
81	VSS11	—	Ground
82	VDD7	—	Power supply +3.3 V
83 -89	EA5 - EA11	I/O	External RAM data input/output
90	EA12	O	External RAM address output
91	VSS0	—	Ground
92 -94	EA13 - EA15	O	External RAM address output
95	EA16	O	Not used
96	TSTA	I	Test data input "L" = normal "H" = test (Connected to ground)
97	PLDIVF	I	PLL input frequency select "L" = 256fs "H" = 128 fs (Connected to ground)
98	PLDIVB	O	PLL output frequency select "L" = 768 fs "H" = 1024 fs (Connected to ground)
99	CLK1	I	Master clock input
100	CLKO	O	Master clock output (Not connected)

Pin No.	Pin Name	I/O	Description
101	VSS1	—	Ground
102	VDD0	—	Power supply +3.3 V
103	AVSS	—	Ground for PLL cell
104	AVDD	—	VDD for PLL cell
105	PLLCK	I/O	PLL output/test clock input (Not connected)
106	XPLLEN	I	PLL cell oscillation enable "L" oscillation enable "H" oscillation stop (Connected to ground)
107	TST	I	Test data input "L" = normal "H" = test (Connected to ground)
108	LRCT	I	Frequency counter input (Connected to ground)
109	LROUT	O	LRCK0 divider output
110	BKOUT	O	BCK0 divider output
111	VSS2	—	Ground
112	VDD1	—	Power supply +3.3 V
113	BCK0	I	BCK input
114	BCK1	I	BCK input
115	LRCK0	I	LRCK input
116	LRCK1	I	LRCK input
117 -120	SIA - SID	I	Serial data input

SECTION 4
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts of Color Cabinet's Color
- Abbreviation

CND : Canadian		G	: German
EE	: East European	EA	: Saudi Arabia
MY	: Malaysia	SP	: Singapore
AUS	: Australian	CH	: Chinese

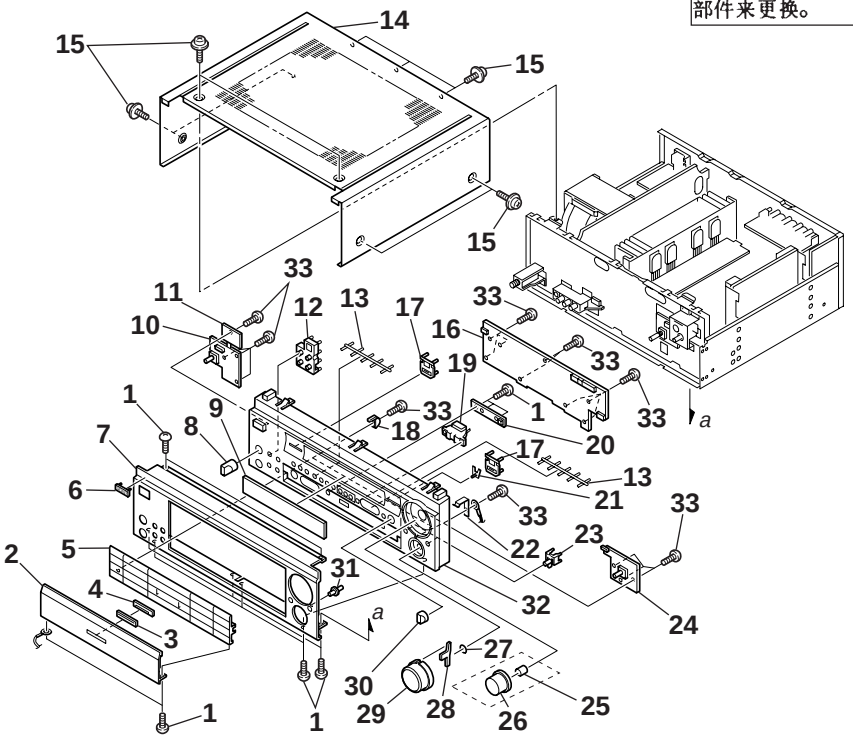
When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

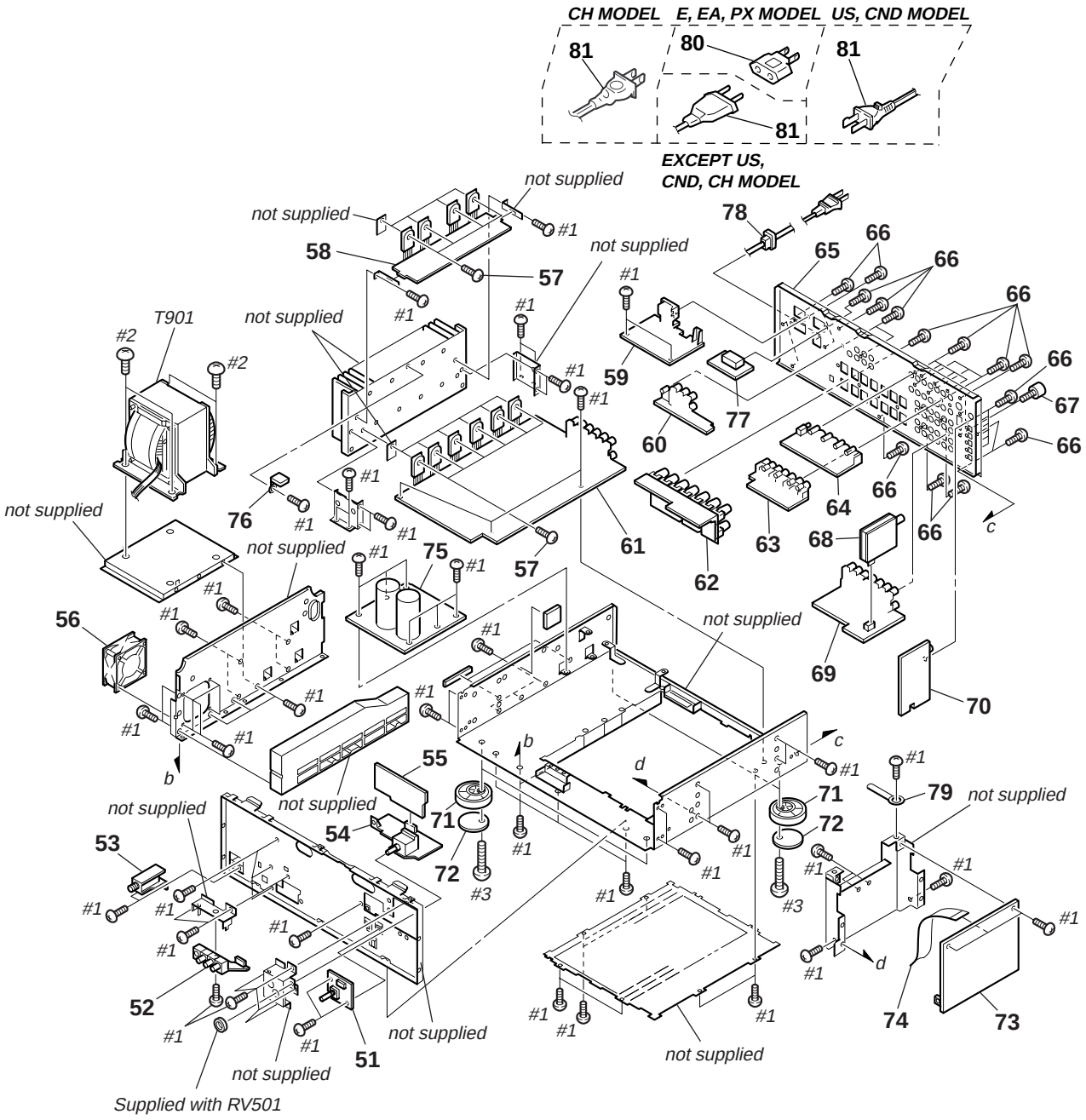
4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	3-704-515-21	SCREW (BV/RING)	
2	4-900-632-01	LID (FRONT) (BLACK)	
2	4-900-632-11	LID (FRONT) (GOLD)	
* 3	4-900-642-01	ESCUTCHEON (LID) (SILVER)	
* 3	4-900-642-11	ESCUTCHEON (LID) (GOLD)	
* 4	4-900-643-01	INDICATOR (LID)	
* 5	4-900-634-01	LID (BASE) (BLACK)	
* 5	4-900-634-11	LID (BASE) (GOLD)	
6	4-942-568-41	EMBLEM (NO.5), SONY (BLACK)	
6	4-942-568-51	EMBLEM (NO.5), SONY (GOLD)	
7	4-900-631—1	PANEL, FRONT (GOLD) (V55ES)	
7	4-900-631-01	PANEL, FRONT (BLACK) (DA50ES:US,CND)	
7	4-900-631-11	PANEL, FRONT (GOLD) (DA50ES:AEP)	
7	4-900-631-31	PANEL, FRONT (BLACK) (DA30ES)	
7	4-900-631-52	PANEL, FRONT (BLACK) (DA50ES:AEP,UK,G,EE,AUS)	
7	4-900-631-61	PANEL, FRONT(BLACK)(DA50ES:E,EA,PX,SP,MY)	
8	4-957-383-01	KNOB (F14) (BLACK)	
8	4-957-383-21	KNOB (F14) (GOLD)	
9	4-900-648-01	WINDOW	
* 10	1-670-142-11	SP.SWITCH BOARD	
* 11	1-670-749-11	POWER SWITCH BOARD	
12	4-900-563-11	BUTTON (5) (BLACK)	
12	4-900-563-21	BUTTON (5) (GOLD)	
13	4-991-388-01	INDICATOR (FUNC)	
* 14	X-4950-431-1	CASE ASSY (BLACK)	
* 14	X-4950-437-1	CASE ASSY (GOLD)	
15	4-210-291-01	SCREW (CASE 3 TP2) (BLACK)	
15	4-210-291-11	SCREW (CASE 3 TP2) (GOLD)	
* 16	A-4414-286-A	DISPLAY BOARD,COMPLETE(DA50ES:US,CND)	
* 16	A-4414-287-A	DISPLAY BOARD,COMPLETE (DA50ES:AEP,UK,G,EE,AUS)	

Ref. No.	Part No.	Description	Remarks
* 16	A-4414-288-A	DISPLAY BOARD,COMPLETE (DA50ES:SP,MY/V55ES)	
* 16	A-4414-289-A	DISPLAY BOARD,COMPLETE (DA50ES:E,EA,PX)	
* 16	A-4414-299-A	DISPLAY BOARD,COMPLETE (DA30ES)	
17	4-991-386-01	BUTTON (WINDOW)	
18	4-900-644-11	FULCRUM (GOLD)	
18	4-900-644-01	FULCRUM (BLACK)	
* 19	4-900-638-01	HOUSE, LAMP	
* 20	1-670-147-11	LED BOARD	
21	4-900-645-01	INDICATOR (S/F)	
22	4-900-639-01	SPRING	
23	4-900-491-01	BUTTON (MUTE) (BLACK)	
23	4-900-491-11	BUTTON (MUTE) (GOLD)	
* 24	1-670-146-11	FUNCTION BOARD	
25	3-703-466-00	SPRING (6600)	
26	X-4948-601-1	KNOB (FUNC) ASSY (BLACK)	
26	X-4948-634-1	KNOB (FUNC) ASSY (GOLD)	
27	3-350-426-01	SPRING, RING	
28	4-998-207-11	INDICATOR (VOL)	
29	X-3375-592-1	KNOB (VOL) ASSY (BLACK)	
29	X-4949-977-1	KNOB (VOL) ASSY (GOLD)	
30	4-900-500-01	KNOB (BAL) (BLACK)	
30	4-900-500-11	KNOB (BAL) (GOLD)	
* 31	X-4950-462-1	LENS ASSY, LED	
32	X-4949-966-1	BASE ASSY, PANEL (BLACK) (DA30ES/DA50ES:US,CND)	
32	X-4949-967-1	BASE ASSY, PANEL (BLACK) (DA50ES:AEP,UK,G,EE,AUS)	
32	X-4949-968-1	BASE ASSY, PANEL (BLACK) (DA50ES:E,EA,PX,SP,MY)	
32	X-4949-969-1	BASE ASSY, PANEL (GOLD) (DA50ES:AEP,UK,G,EE,AUS)	
32	X-4949-970-1	BASE ASSY, PANEL (GOLD) (V55ES)	
33	4-951-620-01	SCREW (2.6×8),+BVTP	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-670-140-11	BALANCE VOLUME BOARD	
* 52	1-670-145-11	F.VIDEO BOARD	
* 53	1-670-139-11	HP BOARD	
* 54	1-670-141-11	VOLUME BOARD	
* 55	A-4414-252-A	AMP BOARD, COMPLETE	
56	1-698-792-11	FAN, DC (DA50ES/V55ES)	
57	3-905-609-11	SCREW (TRANSISTOR)	
* 58	A-4414-280-A	S.AMP BOARD, COMPLETE (DA50ES:US,CND,E,EA,PX)	
* 58	A-4414-281-A	S.AMP BOARD, COMPLETE (DA50ES:AEP,UK,G,EE,AUS,SP,MY)	
* 58	A-4414-282-A	S.AMP BOARD, COMPLETE (V55ES)	
* 58	A-4414-301-A	S.AMP BOARD, COMPLETE (DA30ES)	
* 59	1-670-132-11	AC BOARD	
* 60	1-670-134-11	5.1 INPUT BOARD	
* 61	A-4414-276-A	MAIN BOARD, COMPLETE (DA50ES:US,CND,E,EA,PX)	
* 61	A-4414-277-A	MAIN BOARD, COMPLETE (DA50ES:AEP,UK,G,EE,AUS)	
* 61	A-4414-278-A	MAIN BOARD, COMPLETE (DA50ES:SP,MY)	
* 61	A-4414-279-A	MAIN BOARD, COMPLETE (V55ES)	
* 61	A-4414-300-A	MAIN BOARD, COMPLETE (DA30ES)	
* 62	1-670-150-11	SP TM BOARD	
* 63	1-670-138-11	VIDEO BOARD	
* 64	A-4414-297-A	S.VIDEO BOARD, COMPLETE	
* 65	4-900-635-01	PANEL, BACK (DA50ES:US)	
* 65	4-900-635-11	PANEL, BACK (DA50ES:CND)	
* 65	4-900-635-21	PANEL, BACK (DA50ES:AEP,UK,G,EE,AUS)	
* 65	4-900-635-31	PANEL, BACK (DA50ES:E,EA,PX)	
* 65	4-900-635-41	PANEL, BACK (DA50ES:SP,MY)	
* 65	4-900-635-51	PANEL, BACK (V55ES)	
* 65	4-900-635-61	PANEL, BACK (DA30ES:US)	
* 65	4-900-635-71	PANEL, BACK (DA30ES:CND)	
66	3-704-515-21	SCREW (BV/RING)	
67	4-947-010-01	SCREW, FEEDER FIXED	
68	1-693-407-11	TUNER (DA30ES/DA50ES:US,CND,E,EA,PX)	
68	1-693-409-11	TUNER (DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	

Ref. No.	Part No.	Description	Remarks
* 69	A-4414-263-A	AUDIO BOARD, COMPLETE (DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)	
* 69	A-4414-264-A	AUDIO BOARD, COMPLETE (DA50ES:AEP,UK,G,EE,AUS)	
* 70	A-4414-295-A	INPUT BOARD, COMPLETE	
71	4-970-123-01	FOOT (F50180S)	
72	4-970-124-01	CUSHION (F50180S)	
* 73	A-4414-291-A	DIGITAL BOARD, COMPLETE (DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY,V55ES)	
* 73	A-4414-292-A	DIGITAL BOARD, COMPLETE (DA50ES:AEP,UK,G,EE,AUS)	
74	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)	
* 75	A-4414-259-A	PS BOARD, COMPLETE (DA50ES:US)	
* 75	A-4414-260-A	PS BOARD, COMPLETE (DA50ES:CND)	
* 75	A-4414-261-A	PS BOARD, COMPLETE (DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	
* 75	A-4414-262-A	PS BOARD, COMPLETE (DA50ES:E,EA,PX)	
* 75	A-4414-627-A	PS BOARD, COMPLETE (DA30ES:US)	
* 75	A-4414-628-A	PS BOARD, COMPLETE (DA30ES:CND)	
* 76	1-670-151-11	TH BOARD	
* 77	1-670-750-11	VOLTAGE SELECTOR BOARD (DA50ES:E,EA,PX)	
* 78	3-703-244-00	BUSHING (2104), CORD (EXCEPT US,CND)	
78	4-916-783-01	BUSHING, CORD (US,CND)	
* 79	3-694-225-01	CLAMP	
⚠80	1-569-008-21	ADAPTOR, CONVERSION 2P (E,EA,PX)	
⚠81	1-559-479-11	CORD, POWER (US,CND)	
⚠81	1-776-095-11	CORD, POWER (EXCEPT US,CND,CH)	
⚠81	1-782-464-21	CORD, POWER (CH)	
⚠T901	1-431-921-11	TRANSFORMER, POWER (DA50ES:US)	
⚠T901	1-431-922-11	TRANSFORMER, POWER (DA50ES:CND)	
⚠T901	1-431-923-11	TRANSFORMER, POWER (DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	
⚠T901	1-431-924-11	TRANSFORMER, POWER (DA50ES:E,EA,PX)	
⚠T901	1-431-925-11	TRANSFORMER, POWER (DA30ES:US)	
⚠T901	1-431-926-11	TRANSFORMER, POWER (DA30ES:CND)	

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

AC AMP

SECTION 5
ELECTRICAL PARTS LIST

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... , uPB... , µPB... , uPC... , µPC... , uPD..., µPD...
- Abbreviation
  CND : Canadian
  EA : Saudi Arabia
  EE : East European
  AUS : Australian
  G : German
  SP : Singapore
  MY : Malaysia
  CH : Chinese

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remarks
*	1-670-132-11	AC BOARD *********	
	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
* CN902	1-564-687-11	PIN, CONNECTOR 3P (E,EA,PX)	
CNP902	1-564-321-00	PIN, CONNECTOR 2P	
CNP903	1-564-321-00	PIN, CONNECTOR 2P (EXCEPT E,EA,PX)	
* CNP905	1-565-792-11	PIN, CONNECTOR 2P	
* CNP907	1-568-951-11	PIN, CONNECTOR 2P	
		< DIODE >	
D907	8-719-911-19	DIODE 1SS119	
		< FUSE >	
⚠F901	1-532-465-51	FUSE, TIME LAG 3.15A,250V (EXCEPT US,CND)	
⚠F901	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5)10A,125V (US,CND)	
⚠F902	1-532-464-51	FUSE TIME LAG 2.5A,250V (AEP,UK,G,EE,AUS,SP,MY,CH)	
⚠F903	1-532-465-51	FUSE, TIME LAG 3.15A,250V (E,EA,PX)	
		< JACK >	
⚠J901	1-251-718-11	OUTLET (2 GANG), AC (US,CND,E,PX,EA,CH)	
⚠J901	1-251-079-11	OUTLET, AC (AEP,UK,G,EE,AUS,SP,MY)	
		< RESISTOR >	
⚠R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)	
		< RELAY >	
⚠RY901	1-515-999-11	RELAY, POWER	
**********			
*	A-4414-252-A	AMP BOARD, COMPLETE **********	
		< CAPACITOR >	
C1401	1-165-319-11	CERAMIC CHIP 0.1uF 50V	
C1403	1-126-049-11	ELECT 22uF 20% 50V	
C1404	1-126-049-11	ELECT 22uF 20% 50V	
C1410	1-126-049-11	ELECT 22uF 20% 50V	
C1411	1-126-049-11	ELECT 22uF 20% 50V	
C1412	1-126-049-11	ELECT 22uF 20% 50V	
C1415	1-126-049-11	ELECT 22uF 20% 50V	
C1416	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1417	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1418	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1419	1-126-049-11	ELECT 22uF 20% 50V	
C1420	1-126-049-11	ELECT 22uF 20% 50V	
C1421	1-126-049-11	ELECT 22uF 20% 50V	
C1460	1-126-049-11	ELECT 22uF 20% 50V	
C1461	1-126-049-11	ELECT 22uF 20% 50V	
C1462	1-126-049-11	ELECT 22uF 20% 50V	
C1463	1-126-049-11	ELECT 22uF 20% 50V	
C1464	1-126-049-11	ELECT 22uF 20% 50V	
C1465	1-126-049-11	ELECT 22uF 20% 50V	
C1466	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1467	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1468	1-163-251-11	CERAMIC CHIP 100PF 5% 50V	
C1469	1-126-049-11	ELECT 22uF 20% 50V	
C1470	1-126-049-11	ELECT 22uF 20% 50V	
C1471	1-126-049-11	ELECT 22uF 20% 50V	
		< CONNECTOR >	
CNS1402	1-779-799-11	PIN, CONNECTOR 9P	
* CNP1403	1-568-939-11	PIN, CONNECTOR 12P	
CNS1406	1-774-292-11	HOUSING,CONNECTOR (PC BOARD)15P	
		< DIODE >	
D1401	8-719-820-05	DIODE 1SS181	
D1402	8-719-820-05	DIODE 1SS181	
D1403	8-719-820-05	DIODE 1SS181	
D1404	8-719-820-05	DIODE 1SS181	
D1405	8-719-820-05	DIODE 1SS181	
D1406	8-719-820-05	DIODE 1SS181	
		< IC >	
IC1401	8-759-636-55	IC M5218AFP	
IC1402	8-759-636-55	IC M5218AFP	
IC1403	8-759-636-55	IC M5218AFP	
		< TRANSISTOR >	
Q1401	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1402	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1403	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1404	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q1405	8-729-107-46	TRANSISTOR 2SC3624A-L15	

Ref. No.	Part No.	Description		Remarks
Q1406	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1407	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1408	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1409	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1410	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1411	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1412	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1413	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1414	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1415	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1416	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1417	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1418	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1419	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1420	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1421	8-729-027-23	TRANSISTOR	DTA114EKA-T146	
Q1422	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1423	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1428	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1429	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1430	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1431	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1432	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1433	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1434	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1435	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1436	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1437	8-729-027-43	TRANSISTOR	DTC114EKA-T146	
Q1451	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1452	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1453	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1454	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1455	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1456	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1457	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1458	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q1459	8-729-107-46	TRANSISTOR	2SC3624A-L15	

< RESISTOR >

R1403	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1404	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1405	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1412	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1413	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1414	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1415	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1416	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1417	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1418	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1419	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1420	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1421	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1422	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1423	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1424	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1425	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1426	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1427	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1428	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1429	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1430	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1431	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1432	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1433	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1434	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1435	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1436	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1437	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1438	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1439	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1440	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1441	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1443	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1444	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1445	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1446	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1447	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1448	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1453	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1454	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1455	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1461	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1462	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1463	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1464	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1465	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1466	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1467	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1468	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1469	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1470	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1471	1-216-115-00	METAL CHIP	560K	5%	1/10W
R1472	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1473	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1474	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1475	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1476	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1477	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1478	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1479	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1480	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1481	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1482	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1483	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1484	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1485	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1486	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
R1487	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1488	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1489	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1490	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1491	1-216-050-00	RES,CHIP	1.1K	5%	1/10W
R1492	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1493	1-216-058-00	RES,CHIP	2.4K	5%	1/10W
R1494	1-216-070-00	METAL CHIP	7.5K	5%	1/10W
R1495	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1498	1-216-062-00	METAL CHIP	3.6K	5%	1/10W

AMP AUDIO

Ref. No.	Part No.	Description			Remarks
R1499	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1500	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1501	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1502	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1503	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1504	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1505	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1506	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1507	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1508	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1509	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1510	1-216-121-91	RES,CHIP	1M	5%	1/10W

****

* A-4414-263-A AUDIO BOARD, COMPLETE
****
(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)

* A-4414-264-A AUDIO BOARD, COMPLETE
****
(DA50ES:AEP,UK,G,EE,AUS)

< CAPACITOR >

C209	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C210	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C212	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C213	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C214	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C215	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C223	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C259	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C260	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C262	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C263	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C264	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C265	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C273	1-162-282-31	CERAMIC	100PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C291	1-126-048-81	ELECT	10uF	20%	50V
C292	1-126-048-81	ELECT	10uF	20%	50V
C293	1-126-048-81	ELECT	10uF	20%	50V
C294	1-126-048-81	ELECT	10uF	20%	50V
C295	1-162-282-31	CERAMIC	100PF	10%	50V
C296	1-162-294-31	CERAMIC	0.001uF	10%	50V
C301	1-164-159-11	CERAMIC	0.1uF		50V
C302	1-162-207-31	CERAMIC	22PF	5%	50V (DA50ES:AEP,UK,G,EE,AUS)
C303	1-126-045-11	ELECT	2.2uF	20%	50V (DA50ES:AEP,UK,G,EE,AUS)
C304	1-126-044-11	ELECT	1uF	20%	50V (DA50ES:AEP,UK,G,EE,AUS)
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V (DA50ES:AEP,UK,G,EE,AUS)
C306	1-162-291-31	CERAMIC	560PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C307	1-162-280-31	CERAMIC	82PF	10%	50V (DA50ES:AEP,UK,G,EE,AUS)
C308	1-162-215-31	CERAMIC	47PF	5%	50V (DA50ES:AEP,UK,G,EE,AUS)
C309	1-126-009-81	ELECT	100uF	20%	16V
C310	1-126-009-81	ELECT	100uF	20%	16V
C311	1-126-009-81	ELECT	100uF	20%	16V
C312	1-162-282-31	CERAMIC	100PF	10%	50V
C313	1-161-494-00	CERAMIC	0.022uF		25V

< CONNECTOR >

CNP201	1-784-924-11	PIN, CONNECTOR 8P
CNP202	1-779-978-11	PIN, CONNECTOR 3P
CNP302	1-784-921-11	PIN, CONNECTOR 4P (DA50ES:AEP,UK,G,EE,AUS)
CNP304	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P

< IC >

IC203	8-759-805-13	IC LC7821
IC205	8-759-634-51	IC M5218AP
IC301	8-759-450-86	IC BU1922 (DA50ES:AEP,UK,G,EE,AUS)
IC302	8-759-708-05	IC NJM78L05A
IC303	8-759-708-12	IC NJM78L12A

< JACK >

J210	1-784-920-11	JACK, PIN 6P (PHONO/CD/MD DAT REC OUT)
J211	1-784-920-11	JACK, PIN 6P (MD DAT IN/TAPE)

< COIL >

L301	1-410-521-11	INDUCTOR	100uH	(DA50ES:AEP,UK,G,EE,AUS)

< RESISTOR >

R222	1-249-417-11	CARBON	1K	5%	1/4W F
R223	1-249-417-11	CARBON	1K	5%	1/4W F
R224	1-249-417-11	CARBON	1K	5%	1/4W F
R225	1-249-417-11	CARBON	1K	5%	1/4W F
R226	1-249-417-11	CARBON	1K	5%	1/4W F
R227	1-249-417-11	CARBON	1K	5%	1/4W F
R269	1-247-807-31	CARBON	100	5%	1/4W
R271	1-247-807-31	CARBON	100	5%	1/4W
R272	1-249-417-11	CARBON	1K	5%	1/4W F
R273	1-249-417-11	CARBON	1K	5%	1/4W F
R274	1-249-417-11	CARBON	1K	5%	1/4W F
R275	1-249-417-11	CARBON	1K	5%	1/4W F
R276	1-249-417-11	CARBON	1K	5%	1/4W F
R277	1-249-417-11	CARBON	1K	5%	1/4W F
R291	1-249-441-11	CARBON	100K	5%	1/4W
R292	1-249-441-11	CARBON	100K	5%	1/4W
R295	1-249-417-11	CARBON	1K	5%	1/4W F
R296	1-249-425-11	CARBON	4.7K	5%	1/4W F
R301	1-247-807-31	CARBON	100	5%	1/4W (DA50ES:AEP,UK,G,EE,AUS)
R302	1-247-807-31	CARBON	100	5%	1/4W (DA50ES:AEP,UK,G,EE,AUS)

Ref. No.	Part No.	Description			Remarks
R303	1-249-385-11	CARBON	2.2	5%	1/6W F
			(DA50ES:AEP,UK,G,EE,AUS)		
R304	1-249-417-11	CARBON	1K	5%	1/4W F
R305	1-249-417-11	CARBON	1K	5%	1/4W F
R306	1-247-807-31	CARBON	100	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W F
R308	1-249-417-11	CARBON	1K	5%	1/4W F
R309	1-249-417-11	CARBON	1K	5%	1/4W F
R379	1-249-417-11	CARBON	1K	5%	1/4W F
		< VIBRATOR >			
X301	1-579-900-21	VIBRATOR, CRYSTAL 4.33MHz			
		(DA50ES:AEP,UK,G,EE,AUS)			
**********					
*	1-670-140-11	BALANCE VOLUME BOARD			
		**********			
		< CONNECTOR >			
CNS404	1-770-398-11	HOUSING, CONNECTOR(PC BOARD)5P			
		< VARIABLE RESISTOR >			
RV1140	1-225-663-11	RES, VAR, CARBON 100K/100K (BALANCE)			
**********					
*	A-4414-291-A	DIGITAL BOARD, COMPLETE			
		**********			
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
*	A-4414-292-A	DIGITAL BOARD, COMPLETE			
		**********			
		(DA50ES:AEP,UK,G,EE,AUS)			
		< CAPACITOR >			
C1101	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C1102	1-126-008-51	ELECT	47uF	20%	16V
C1103	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1104	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1105	1-126-008-51	ELECT	47uF	20%	16V
C1106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1107	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C1108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1109	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1110	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C1111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1112	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C1113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1116	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1119	1-126-009-81	ELECT	100uF	20%	16V
C1120	1-126-009-81	ELECT	100uF	20%	16V
C1121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
C1122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
C1123	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1124	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1125	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C1126	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1127	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1128	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1129	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1130	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1131	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1133	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1134	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1135	1-126-009-81	ELECT	100uF	20%	16V
C1136	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1137	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
C1138	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1140	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1141	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1207	1-126-048-81	ELECT	10uF	20%	50V
C1210	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1211	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1212	1-126-048-81	ELECT	10uF	20%	50V
C1213	1-126-021-11	ELECT	33uF	20%	25V
C1214	1-126-021-11	ELECT	33uF	20%	25V
C1215	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C1215	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1216	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1217	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1218	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1220	1-126-021-11	ELECT	33uF	20%	25V
C1221	1-126-021-11	ELECT	33uF	20%	25V
C1222	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1223	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1224	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1225	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1227	1-126-021-11	ELECT	33uF	20%	25V
C1228	1-126-021-11	ELECT	33uF	20%	25V
C1229	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1230	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1231	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1232	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1234	1-130-473-00	MYLAR	0.0015uF	5%	50V
C1235	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1236	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1237	1-126-048-81	ELECT	10uF	20%	50V
C1239	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1240	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1241	1-126-048-81	ELECT	10uF	20%	50V
C1242	1-126-048-81	ELECT	10uF	20%	50V
C1243	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1244	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1245	1-126-048-81	ELECT	10uF	20%	50V
C1246	1-126-048-81	ELECT	10uF	20%	50V
C1247	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1248	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1249	1-126-048-81	ELECT	10uF	20%	50V
C1250	1-126-048-81	ELECT	10uF	20%	50V
C1251	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1252	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1253	1-126-048-81	ELECT	10uF	20%	50V
C1254	1-126-048-81	ELECT	10uF	20%	50V
C1255	1-126-048-81	ELECT	10uF	20%	50V
C1256	1-165-319-11	CERAMIC CHIP	0.1uF		50V

DIGITAL

Ref. No.	Part No.	Description			Remarks
C1257	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1258	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1259	1-126-048-81	ELECT	10uF	20%	50V
C1263	1-126-021-11	ELECT	33uF	20%	25V
C1264	1-126-021-11	ELECT	33uF	20%	25V
C1265	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1266	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1267	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1268	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1270	1-126-021-11	ELECT	33uF	20%	25V
C1271	1-126-021-11	ELECT	33uF	20%	25V
C1272	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1273	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1274	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1275	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1277	1-126-021-11	ELECT	33uF	20%	25V
C1278	1-126-021-11	ELECT	33uF	20%	25V
C1279	1-163-131-00	CERAMIC CHIP	390PF	5%	50V
C1280	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1281	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C1282	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1284	1-130-473-00	MYLAR	0.0015uF	5%	50V
C1285	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1286	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1287	1-126-048-81	ELECT	10uF	20%	50V
C1289	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1301	1-126-048-81	ELECT	10uF	20%	50V
C1302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1303	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1304	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1305	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1306	1-163-033-91	CERAMIC CHIP	0.022uF		50V
C1307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C1310	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1311	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1312	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1313	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C1314	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
CND1301	1-784-924-11	PIN, CONNECTOR 8P			
CND1302	1-506-469-11	PIN, CONNECTOR 4P			
* CND1303	1-568-938-11	PIN, CONNECTOR 11P			
CNE1301	1-764-330-11	PIN, CONNECTOR (PCB) (V TYPE)7P			
CNP1301	1-784-927-11	PIN, CONNECTOR 12P			
CNP1303	1-784-922-11	PIN, CONNECTOR 5P			
CNP1304	1-779-978-11	PIN, CONNECTOR 3P			
CNS1301	1-784-780-11	CONNECTOR, FFC 19P			
* CNS1304	1-568-939-11	PIN, CONNECTOR 12P			
		< DIODE >			
D1301	8-719-801-78	DIODE 1SS184			
D1302	8-719-016-74	DIODE 1SS352			
D1303	8-719-016-74	DIODE 1SS352			
D1304	8-719-801-78	DIODE 1SS184			
D1305	8-719-801-78	DIODE 1SS184			

Ref. No.	Part No.	Description	Remarks
D1306	8-719-801-78	DIODE 1SS184	
D1307	8-719-016-74	DIODE 1SS352	
D1308	8-719-210-33	DIODE EC10DS2	
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)	
D1309	8-719-801-78	DIODE 1SS184	
		< GROUND >	
EP1401	1-537-770-21	TERMINAL BOARD, GROUND	
EP1402	1-537-770-21	TERMINAL BOARD, GROUND	
		< IC >	
IC1101	8-759-294-79	IC CXD8495AQ	
IC1102	8-759-530-30	IC TC74VHCU04FT(EL)	
? IC1103	8-759-553-27	IC MSM531031B-84GS-KR1	
IC1104	8-759-524-52	IC TC74VHC574FT(EL)	
IC1105	8-759-524-52	IC TC74VHC574FT(EL)	
IC1106	8-759-538-17	IC CS4926	
IC1107	8-759-523-78	IC TC74VHC00FT(EL)	
IC1108	8-759-524-32	IC TC74VHC367FT(EL)	
IC1109	8-759-524-48	IC TC74VHC393FT(EL)	
IC1110	8-759-546-46	IC IDT71V124S15YAU-TL	
IC1111	8-759-546-46	IC IDT71V124S15YAU-TL	
IC1112	8-752-391-87	IC CXD2712R	
IC1113	8-759-195-02	IC TC7S86F-TE85L	
IC1201	8-759-535-57	IC MB90574PFV-G-127-BND	
IC1202	8-759-536-23	IC AK4324-VF-E2	
IC1203	8-759-536-23	IC AK4324-VF-E2	
IC1204	8-759-536-23	IC AK4324-VF-E2	
IC1205	8-759-636-55	IC M5218AFP	
IC1206	8-759-636-55	IC M5218AFP	
IC1207	8-759-636-55	IC M5218AFP	
IC1208	8-759-636-55	IC M5218AFP	
IC1209	8-759-636-55	IC M5218AFP	
IC1210	8-759-462-08	IC AK5352-VF-E2	
		< TRANSISTOR >	
Q1301	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q1302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1305	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1306	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1307	8-729-230-49	TRANSISTOR 2SC2712-YG	
		(DA50ES:AEP,UK,G,EE,AUS)	
Q1308	8-729-027-43	TRANSISTOR DTC114EKA-T146	
		< RESISTOR >	

R1101	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1102	1-216-025-91	RES,CHIP	100	5%	1/10W
R1103	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R1105	1-216-082-00	RES,CHIP	24K	5%	1/10W
R1106	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1107	1-216-066-00	METAL CHIP	5.1K	5%	1/10W
R1108	1-216-029-00	METAL CHIP	150	5%	1/10W
R1109	1-216-104-00	METAL CHIP	200K	5%	1/10W
R1110	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1111	1-216-025-91	RES,CHIP	100	5%	1/10W
R1112	1-216-025-91	RES,CHIP	100	5%	1/10W
R1113	1-216-025-91	RES,CHIP	100	5%	1/10W
R1114	1-216-025-91	RES,CHIP	100	5%	1/10W
R1115	1-216-097-91	RES,CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1116	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1117	1-216-025-91	RES,CHIP	100	5%	1/10W
R1118	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1119	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1120	1-216-025-91	RES,CHIP	100	5%	1/10W
R1121	1-216-041-00	METAL CHIP	470	5%	1/10W
R1122	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1123	1-216-025-91	RES,CHIP	100	5%	1/10W
R1124	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1125	1-216-025-91	RES,CHIP	100	5%	1/10W
R1126	1-216-025-91	RES,CHIP	100	5%	1/10W
R1127	1-216-025-91	RES,CHIP	100	5%	1/10W
R1128	1-216-025-91	RES,CHIP	100	5%	1/10W
R1129	1-216-025-91	RES,CHIP	100	5%	1/10W
R1130	1-216-025-91	RES,CHIP	100	5%	1/10W
R1131	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1132	1-216-295-91	SHORT	0		
R1133	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1134	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1135	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1136	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1137	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1138	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1139	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1140	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1141	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1142	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1143	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1144	1-216-025-91	RES,CHIP	100	5%	1/10W
R1145	1-216-081-00	METAL CHIP	22K	5%	1/10W
R1146	1-216-025-91	RES,CHIP	100	5%	1/10W
R1147	1-216-025-91	RES,CHIP	100	5%	1/10W
R1148	1-216-025-91	RES,CHIP	100	5%	1/10W
R1149	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1150	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1151	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1152	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
			(DA50ES:AEP,UK,G,EE,AUS)		
R1152	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1153	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1202	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1203	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1204	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1205	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1206	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1207	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1209	1-216-033-00	METAL CHIP	220	5%	1/10W
R1210	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1211	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1213	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1214	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1218	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1219	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1221	1-216-033-00	METAL CHIP	220	5%	1/10W
R1222	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1227	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1228	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1229	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1230	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1231	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1233	1-216-033-00	METAL CHIP	220	5%	1/10W
R1234	1-216-037-00	METAL CHIP	330	5%	1/10W
R1235	1-216-037-00	METAL CHIP	330	5%	1/10W
R1236	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1237	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1238	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1243	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1244	1-216-001-00	METAL CHIP	10	5%	1/10W
R1245	1-216-001-00	METAL CHIP	10	5%	1/10W
R1246	1-216-001-00	METAL CHIP	10	5%	1/10W
R1247	1-216-001-00	METAL CHIP	10	5%	1/10W
R1248	1-216-001-00	METAL CHIP	10	5%	1/10W
R1249	1-216-001-00	METAL CHIP	10	5%	1/10W
R1252	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1253	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1254	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1255	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1256	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1257	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1259	1-216-033-00	METAL CHIP	220	5%	1/10W
R1260	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1261	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1263	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1264	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1268	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1269	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1271	1-216-033-00	METAL CHIP	220	5%	1/10W
R1272	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1277	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R1278	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1279	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1280	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R1281	1-216-074-00	METAL CHIP	11K	5%	1/10W
R1283	1-216-033-00	METAL CHIP	220	5%	1/10W
R1284	1-216-037-00	METAL CHIP	330	5%	1/10W
R1285	1-216-037-00	METAL CHIP	330	5%	1/10W
R1286	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1287	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1288	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1292	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1293	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1301	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1303	1-216-025-91	RES,CHIP	100	5%	1/10W
R1304	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1306	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1307	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1308	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1309	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1310	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1311	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1312	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1313	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1314	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1316	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1317	1-216-065-91	RES,CHIP	4.7K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1318	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1319	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1320	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1321	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1322	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1323	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1324	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R1325	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1326	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1327	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1328	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1330	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R1331	1-216-025-91	RES,CHIP	100	5%	1/10W
R1332	1-216-025-91	RES,CHIP	100	5%	1/10W
R1333	1-216-025-91	RES,CHIP	100	5%	1/10W
R1334	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1337	1-216-105-91	RES,CHIP	220K	5%	1/10W
R1338	1-216-041-00	METAL CHIP	470	5%	1/10W
R1339	1-216-041-00	METAL CHIP	470	5%	1/10W
R1340	1-216-041-00	METAL CHIP	470	5%	1/10W
R1341	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1342	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1343	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1344	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1345	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1346	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1347	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1348	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1349	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1350	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1351	1-216-025-91	RES,CHIP	100	5%	1/10W
R1352	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1353	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1354	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1355	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1356	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1357	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1358	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1359	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1360	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1361	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1362	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1363	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1364	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1365	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1366	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1367	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1368	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1369	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1370	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1371	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1372	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1373	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1374	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1375	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1376	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1377	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1378	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1379	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1380	1-216-073-00	METAL CHIP	10K	5%	1/10W
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			

Ref. No.	Part No.	Description			Remarks
R1381	1-216-073-00	METAL CHIP	10K	5%	1/10W
		(DA50ES:AEP,UK,G,EE,AUS)			
R1383	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1384	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1385	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1386	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1387	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1388	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1389	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1390	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1391	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1392	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1393	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1394	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1395	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1396	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1397	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1401	1-216-080-00	METAL CHIP	20K	5%	1/10W
R1402	1-216-080-00	METAL CHIP	20K	5%	1/10W

< VIBRATOR >

X1101	1-567-970-11	VIBRATOR, CRYSTAL 24.576Hz			
X1102	1-767-949-21	VIBRATOR, CERAMIC 49.152MHz			
X1301	1-767-359-11	VIBRATOR, CERAMIC 4MHz			

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*	A-4414-286-A	DISPLAY BOARD, COMPLETE(DA50ES:US,CND)			
		**********			
*	A-4414-287-A	DISPLAY BOARD, COMPLETE			
		**********			
		(DA50ES:AEP,UK,G,EE,AUS)			
*	A-4414-288-A	DISPLAY BOARD, COMPLETE			
		**********			
		(DA50ES:SP,MY/V55ES)			
*	A-4414-289-A	DISPLAY BOARD, COMPLETE(DA50ES:E,EA,PX)			
		**********			
*	A-4414-299-A	DISPLAY BOARD, COMPLETE(DA30ES)			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-990-797-01	HOLDER (FL)			

< CAPACITOR >

C101	1-126-786-11	ELECT	47uF	20%	16V
C102	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C103	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C104	1-126-795-11	ELECT	10uF	20%	50V
C105	1-104-905-11	CAPACITOR	0.22F		5.5V
C106	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C107	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C108	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C109	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C110	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C111	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C112	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C113	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C114	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C115	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C116	1-126-786-11	ELECT	47uF	20%	16V
C117	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C118	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C119	1-126-786-11	ELECT	47uF	20%	16V
C120	1-165-319-11	CERAMIC CHIP	0.1uF		50V

Ref. No.	Part No.	Description			Remarks
C121	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C122	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C123	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C124	1-126-382-11	ELECT	100uF	20%	10V
C125	1-126-382-11	ELECT	100uF	20%	10V
C126	1-115-871-11	ELECT	1uF	20%	50V
C127	1-115-871-11	ELECT	1uF	20%	50V
C131	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C132	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C134	1-107-818-11	CAPACITOR	1F		5.5V
C914	1-126-795-11	ELECT	10uF	20%	50V
C915	1-126-795-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNP105	1-568-949-11	PIN, CONNECTOR 11P			
CNP106	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
* CNP107	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P (DA50ES:AEP,UK,G,EE,AUS)			
* CNS101	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P			
		< DIODE >			
D101	8-719-016-74	DIODE 1SS352			
D102	8-719-210-33	DIODE EC10DS2			
D103	8-719-016-74	DIODE 1SS352			
D104	8-719-016-74	DIODE 1SS352			
D107	8-719-046-39	DIODE SEL5821A-TH15 (SOUND FIELD ON/OFF)			
D108	8-719-313-45	DIODE SEL6810A-TH10 (SUR)			
D109	8-719-313-45	DIODE SEL6810A-TH10 (EQ)			
D110	8-719-313-45	DIODE SEL6810A-TH10 (INDEX)			
D111	8-719-064-55	DIODE SEC1803C			
D112	8-719-064-55	DIODE SEC1803C			
D113	8-719-064-55	DIODE SEC1803C			
D114	8-719-064-55	DIODE SEC1803C			
D115	8-719-064-55	DIODE SEC1803C			
D116	8-719-064-56	DIODE SEC2484C			
D117	8-719-064-56	DIODE SEC2484C			
D118	8-719-064-56	DIODE SEC2484C			
D119	8-719-064-56	DIODE SEC2484C			
D120	8-719-064-56	DIODE SEC2484C			
D121	8-719-313-45	DIODE SEL6810A-TH10 (BASS BOOST)			
D124	8-719-059-14	DIODE SID313BP-TP19			
D125	8-719-059-14	DIODE SID313BP-TP19			
D126	8-719-016-74	DIODE 1SS352			
D127	8-719-016-74	DIODE 1SS352			
D128	8-719-064-57	DIODE SID5K23CTP15			
D129	8-719-801-78	DIODE 1SS184			
D913	8-719-977-81	DIODE DTZ33B			
		< FILTER >			
FL101	1-517-781-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC101	8-749-014-66	IC NJL56H400A			
IC102	8-759-535-50	IC MB90553PF-G-121-BND			
IC103	8-759-823-87	IC LB1638M			
IC104	8-759-463-11	IC MSC1162AGS-BK			
IC105	8-759-389-51	IC MSC1164GS-KR1			
IC106	8-759-545-07	IC TMP87C447U-4A06			
IC107	8-759-925-76	IC SN74HC08ANS			

Ref. No.	Part No.	Description			Remarks
		< JUMPER RESISTOR >			
JW11	1-216-295-91	SHORT	0 (DA50ES:E,EA,PX)		
JW12	1-216-295-91	SHORT	0 (DA50ES:SP,MY/V55ES)		
JW14	1-216-295-91	SHORT	0 (DA50ES:AEP,UK,G,EE,AUS)		
JW21	1-216-295-91	SHORT	0 (DA30ES)		
JW22	1-216-295-91	SHORT	0 (DA50ES/V55ES)		
		< COIL >			
L101	1-500-425-11	FERRITE			
		< TRANSISTOR >			
Q101	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q102	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q103	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q105	8-729-230-49	TRANSISTOR 2SC2712-YG			
Q106	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q107	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q108	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q109	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q110	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q111	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q112	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q113	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q114	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q115	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q116	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q118	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q119	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q120	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q121	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q122	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q123	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q124	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q125	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q126	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q127	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q128	8-729-027-43	TRANSISTOR DTC114EKA-T146			
Q129	8-729-010-35	TRANSISTOR MSD602-RT1			
Q130	8-729-010-35	TRANSISTOR MSD602-RT1			
Q971	8-729-822-05	TRANSISTOR 2SD1622-ST-TD			
		< RESISTOR >			
R101	1-219-163-11	RES,CHIP	1.1	5%	1/10W
R103	1-216-089-91	RES,CHIP	47K	5%	1/10W
R104	1-216-001-00	METAL CHIP	10	5%	1/10W
R105	1-216-001-00	METAL CHIP	10	5%	1/10W
R106	1-216-001-00	METAL CHIP	10	5%	1/10W
R107	1-216-001-00	METAL CHIP	10	5%	1/10W
R108	1-216-097-91	RES,CHIP	100K	5%	1/10W
R109	1-216-097-91	RES,CHIP	100K	5%	1/10W
R110	1-216-073-00	METAL CHIP	10K	5%	1/10W
R111	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R112	1-216-073-00	METAL CHIP	10K	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-073-00	METAL CHIP	10K	5%	1/10W

DISPLAY F.VIDEO

Ref. No.	Part No.	Description			Remarks
R117	1-216-081-00	METAL CHIP	22K	5%	1/10W
R118	1-216-081-00	METAL CHIP	22K	5%	1/10W
R119	1-216-049-91	RES,CHIP	1K	5%	1/10W
R120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R121	1-216-049-91	RES,CHIP	1K	5%	1/10W
R122	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-049-91	RES,CHIP	1K	5%	1/10W
R124	1-216-029-00	METAL CHIP	150	5%	1/10W
R125	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R126	1-216-073-00	METAL CHIP	10K	5%	1/10W
R127	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R128	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R129	1-216-049-91	RES,CHIP	1K	5%	1/10W
R130	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R131	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R132	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R133	1-216-037-00	METAL CHIP	330	5%	1/10W
R134	1-216-037-00	METAL CHIP	330	5%	1/10W
R136	1-216-037-00	METAL CHIP	330	5%	1/10W
R137	1-216-037-00	METAL CHIP	330	5%	1/10W
R138	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R139	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R140	1-216-037-00	METAL CHIP	330	5%	1/10W
R141	1-216-041-00	METAL CHIP	470	5%	1/10W
R142	1-216-045-00	METAL CHIP	680	5%	1/10W
R143	1-216-049-91	RES,CHIP	1K	5%	1/10W
R144	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R145	1-216-037-00	METAL CHIP	330	5%	1/10W
R146	1-216-041-00	METAL CHIP	470	5%	1/10W
R147	1-216-045-00	METAL CHIP	680	5%	1/10W
R148	1-216-049-91	RES,CHIP	1K	5%	1/10W
R149	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R150	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R151	1-216-037-00	METAL CHIP	330	5%	1/10W
R152	1-216-041-00	METAL CHIP	470	5%	1/10W
R153	1-216-045-00	METAL CHIP	680	5%	1/10W
R154	1-216-037-00	METAL CHIP	330	5%	1/10W
R161	1-216-049-91	RES,CHIP	1K	5%	1/10W
R162	1-216-049-91	RES,CHIP	1K	5%	1/10W
R163	1-216-073-00	METAL CHIP	10K	5%	1/10W
R164	1-216-097-91	RES,CHIP	100K	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W
R166	1-216-097-91	RES,CHIP	100K	5%	1/10W
R167	1-216-302-00	METAL CHIP	2.7	5%	1/10W
R168	1-216-049-91	RES,CHIP	1K	5%	1/10W
R169	1-216-049-91	RES,CHIP	1K	5%	1/10W
R170	1-216-049-91	RES,CHIP	1K	5%	1/10W
R171	1-216-049-91	RES,CHIP	1K	5%	1/10W
R172	1-216-049-91	RES,CHIP	1K	5%	1/10W
R173	1-216-097-91	RES,CHIP	100K	5%	1/10W
R175	1-216-049-91	RES,CHIP	1K	5%	1/10W
		(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)			
R176	1-216-073-00	METAL CHIP	10K	5%	1/10W
		(DA50ES:AEP,UK,G,EE,AUS)			
R177	1-216-073-00	METAL CHIP	10K	5%	1/10W
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
R915	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
RR10	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)			
RR11	1-216-037-00	METAL CHIP	330	5%	1/10W
		(DA50ES:E,EA,PX,SP,MY/V55ES)			
RR12	1-216-041-00	METAL CHIP	470	5%	1/10W
		(DA50ES:SP,MY/V55ES)			
RR20	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
RR21	1-216-037-00	METAL CHIP	330	5%	1/10W
RR22	1-216-041-00	METAL CHIP	470	5%	1/10W
		(DA50ES/V55ES)			
		< SWITCH >			
S103	1-572-184-11	SWITCH, KEYBOARD (INPUT MODE)			
S104	1-572-184-11	SWITCH, KEYBOARD (SLEEP)			
S105	1-572-184-11	SWITCH, KEYBOARD (DIMMER)			
S106	1-572-184-11	SWITCH, KEYBOARD (TUNING +)			
S107	1-572-184-11	SWITCH, KEYBOARD (TUNING -)			
S108	1-572-184-11	SWITCH, KEYBOARD (FM MODE)			
S109	1-572-184-11	SWITCH, KEYBOARD (DOWN)			
S110	1-572-184-11	SWITCH, KEYBOARD (UP)			
S111	1-572-184-11	SWITCH, KEYBOARD (LEFT)			
S112	1-572-184-11	SWITCH, KEYBOARD (CURSOR MODE)			
S113	1-572-184-11	SWITCH, KEYBOARD (EQUALIZER)			
S114	1-572-184-11	SWITCH, KEYBOARD (MODE)			
S115	1-572-184-11	SWITCH, KEYBOARD (GENRE)			
S116	1-572-184-11	SWITCH, KEYBOARD (BASS BOOST)			
S117	1-572-184-11	SWITCH, KEYBOARD (RIGHT)			
S118	1-572-184-11	SWITCH, KEYBOARD (SET UP)			
S119	1-572-184-11	SWITCH, KEYBOARD (SOUND FIELD ON/OFF)			
S120	1-572-184-11	SWITCH, KEYBOARD (MEMORY)			
S121	1-572-184-11	SWITCH, KEYBOARD (DISPLAY)			
		< VIBRATOR >			
X101	1-767-359-11	VIBRATOR, CERAMIC 4MHz			
X102	1-767-938-21	VIBRATOR, CERAMIC 7.28MHz			
**********					
*	1-670-145-11	F.VIDEO BOARD			
		**********			
		< CAPACITOR >			
C299	1-164-159-11	CERAMIC	0.1uF		50V
C890	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C891	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
		< CONNECTOR >			
* CN804	1-564-725-11	PIN, CONNECTOR (SMALL TYPE) 9P			
		< JACK >			
J809	1-784-808-11	TERMINAL, S (S VIDEO 3)			
J810	1-779-798-11	JACK, PIN (BLOCK) (L TYPE) 3P			
		(AUDIO 3/ VIDEO 3)			
		< RESISTOR >			
R890	1-249-417-11	CARBON	1K	5%	1/4W F
R891	1-249-417-11	CARBON	1K	5%	1/4W F
R892	1-247-804-11	CARBON	75	5%	1/4W
R893	1-247-804-11	CARBON	75	5%	1/4W
R894	1-247-804-11	CARBON	75	5%	1/4W
**********					

Ref. No.	Part No.	Description			Remarks
*	1-670-146-11	FUNCTION BOARD			
		**********			
		< CONNECTOR >			
* CNP102	1-569-798-11	PLUG, CONNECTOR 6P			
		< DIODE >			
D123	8-719-313-45	DIODE SEL6810A-TH10 (MUTING)			
		< RESISTOR >			
R102	1-249-411-11	CARBON	330	5%	1/4W
R159	1-249-417-11	CARBON	1K	5%	1/4W F
R160	1-249-419-11	CARBON	1.5K	5%	1/4W F
		< VARIABLE RESISTOR >			
RV101	1-467-808-21	ENCODER, ROTARY (FUNCTION)			
		< SWITCH >			
S126	1-572-184-11	SWITCH, KEYBOARD (MODE)			
S127	1-572-184-11	SWITCH, KEYBOARD (MUTING)			
**********					
*	1-670-139-11	HP BOARD			
		********			
		< CONNECTOR >			
* CNP502	1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	A-4414-295-A	INPUT BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C3301	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3302	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3303	1-126-925-11	ELECT	470uF	20%	10V
C3306	1-164-346-11	CERAMIC CHIP	1uF		16V
C3307	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3308	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3309	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C3310	1-165-319-11	CERAMIC CHIP	0.1uF		50V
		< CONNECTOR >			
CNS33011	1-784-925-11	PIN, CONNECTOR 10P			
		< DIODE >			
D3001	8-719-016-74	DIODE 1SS352			
		< IC >			
IC3301	8-749-923-05	IC TORX178 (DVD/LD IN OPT)			
IC3302	8-749-923-05	IC TORX178 (TV/DBS IN OPT)			
IC3303	8-749-923-05	IC TORX178 (MD/DAT IN OPT)			
IC3304	8-749-923-04	IC TOTX178 (MD/DAT OUT OPT)			
IC3310	8-759-236-17	IC TC74HC151AF-TP1			
IC3311	8-749-923-05	IC TORX178 (CD IN OPT)			
IC3314	8-759-233-64	IC TC74HCU04AF			

Ref. No.	Part No.	Description			Remarks
		< JACK >			
J3301	1-770-905-11	JACK, PIN 1P (DVD/LD IN COAXIAL)			
		< RESISTOR >			
R3301	1-216-025-91	RES,CHIP	100	5%	1/10W
R3303	1-216-025-91	RES,CHIP	100	5%	1/10W
R3304	1-216-025-91	RES,CHIP	100	5%	1/10W
R3305	1-216-115-00	METAL CHIP	560K	5%	1/10W
R3309	1-216-073-00	METAL CHIP	10K	5%	1/10W
R3310	1-216-025-91	RES,CHIP	100	5%	1/10W
R3312	1-216-025-91	RES,CHIP	100	5%	1/10W
R3313	1-216-025-91	RES,CHIP	100	5%	1/10W
R3314	1-216-025-91	RES,CHIP	100	5%	1/10W
R3315	1-216-049-91	RES,CHIP	1K	5%	1/10W
**********					
*	1-670-147-11	LED BOARD			
		*********			
		< DIODE >			
D122	8-719-070-83	DIODE SELU5E20C-TP15			
**********					
*	A-4414-276-A	MAIN BOARD, COMPLETE			
		**********			
		(DA50ES:US,CND,E,EA,PX)			
*	A-4414-277-A	MAIN BOARD, COMPLETE			
		**********			
		(DA50ES:AEP,UK,G,EE,AUS)			
*	A-4414-278-A	MAIN BOARD, COMPLETE (DA50ES:SP,MY)			
		**********			
*	A-4414-279-A	MAIN BOARD, COMPLETE (V55ES)			
		**********			
*	A-4414-300-A	MAIN BOARD, COMPLETE (DA30ES)			
		**********			
	1-533-217-31	HOLDER, FUSE			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C201	1-126-047-81	ELECT	4.7uF	20%	50V
C202	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C203	1-162-283-31	CERAMIC	120PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C204	1-126-008-51	ELECT	47uF	20%	16V
C205	1-125-896-91	MYLAR	0.0091uF	5%	50V
C206	1-136-159-00	FILM	0.033uF	5%	50V
C207	1-126-045-11	ELECT	2.2uF	20%	50V
C208	1-126-009-81	ELECT	100uF	20%	16V
C211	1-126-021-11	ELECT	33uF	20%	25V
C216	1-126-021-11	ELECT	33uF	20%	25V
C217	1-126-008-51	ELECT	47uF	20%	16V
C218	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C219	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C220	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			
C221	1-162-282-31	CERAMIC	100PF	10%	50V
		(DA50ES:AEP,UK,G,EE,AUS)			

MAIN

Ref. No.	Part No.	Description				Remarks
C222	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C224	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C225	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C248	1-126-009-81	ELECT	100uF	20%	16V	
C249	1-126-009-81	ELECT	100uF	20%	16V	
C251	1-126-047-81	ELECT	4.7uF	20%	50V	
C252	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C253	1-162-283-31	CERAMIC	120PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C254	1-126-008-51	ELECT	47uF	20%	16V	
C255	1-125-896-91	MYLAR	0.0091uF	5%	50V	
C256	1-136-159-00	FILM	0.033uF	5%	50V	
C257	1-126-045-11	ELECT	2.2uF	20%	50V	
C258	1-126-009-81	ELECT	100uF	20%	16V	
C261	1-126-021-11	ELECT	33uF	20%	25V	
C266	1-126-021-11	ELECT	33uF	20%	25V	
C267	1-126-008-51	ELECT	47uF	20%	16V	
C268	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C269	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C270	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C271	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C272	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C274	1-162-282-31	CERAMIC	100PF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C275	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C297	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C351	1-126-009-81	ELECT	100uF	20%	16V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C352	1-126-009-81	ELECT	100uF	20%	16V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C353	1-162-294-31	CERAMIC	0.001uF	10%	50V	
			(DA50ES:AEP,UK,G,EE,AUS)			
C401	1-124-994-11	ELECT	100uF	20%	10V	
C402	1-124-994-11	ELECT	100uF	20%	10V	
C403	1-124-994-11	ELECT	100uF	20%	10V	
C404	1-162-199-31	CERAMIC	10PF	5%	50V	
C405	1-162-199-31	CERAMIC	10PF	5%	50V	
C406	1-162-199-31	CERAMIC	10PF	5%	50V	
C407	1-126-021-11	ELECT	33uF	20%	25V	
C408	1-126-021-11	ELECT	33uF	20%	25V	
C409	1-126-021-11	ELECT	33uF	20%	25V	
C410	1-126-021-11	ELECT	33uF	20%	25V	
C411	1-126-021-11	ELECT	33uF	20%	25V	
C412	1-126-021-11	ELECT	33uF	20%	25V	
C413	1-126-021-11	ELECT	33uF	20%	25V	
C414	1-102-508-91	CERAMIC	10PF	0.5PF	50V	
C415	1-126-021-11	ELECT	33uF	20%	25V	
C416	1-102-508-91	CERAMIC	10PF	0.5PF	50V	
C451	1-124-994-11	ELECT	100uF	20%	10V	
C452	1-124-994-11	ELECT	100uF	20%	10V	
C453	1-124-994-11	ELECT	100uF	20%	10V	
C454	1-162-199-31	CERAMIC	10PF	5%	50V	
C455	1-162-199-31	CERAMIC	10PF	5%	50V	
C456	1-162-199-31	CERAMIC	10PF	5%	50V	
C457	1-126-021-11	ELECT	33uF	20%	25V	

Ref. No.	Part No.	Description				Remarks
C458	1-126-021-11	ELECT	33uF	20%	25V	
C459	1-126-021-11	ELECT	33uF	20%	25V	
C460	1-126-021-11	ELECT	33uF	20%	25V	
C461	1-126-021-11	ELECT	33uF	20%	25V	
C462	1-126-021-11	ELECT	33uF	20%	25V	
C463	1-126-021-11	ELECT	33uF	20%	25V	
C464	1-102-508-91	CERAMIC	10PF	0.5PF	50V	
C490	1-126-008-51	ELECT	47uF	20%	16V	
C491	1-126-008-51	ELECT	47uF	20%	16V	
C494	1-126-008-51	ELECT	47uF	20%	16V	
C495	1-126-008-51	ELECT	47uF	20%	16V	
C501	1-126-047-81	ELECT	4.7uF	20%	50V	
C502	1-162-283-31	CERAMIC	120PF	10%	50V	
C503	1-124-995-11	ELECT	220uF	20%	10V	
C504	1-102-233-00	CERAMIC	33PF	10%	500V	
C505	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V	
C514	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V	
C520	1-126-008-51	ELECT	47uF	20%	16V	
C521	1-107-597-11	CERAMIC	22PF	10%	500V	
C522	1-107-597-11	CERAMIC	22PF	10%	500V	
C523	1-162-286-31	CERAMIC	220PF	10%	50V	
C524	1-136-157-00	FILM	0.022uF	5%	50V	
C525	1-124-997-11	ELECT	470uF	20%	6.3V	
C526	1-126-049-11	ELECT	22uF	20%	50V	
C527	1-136-153-00	FILM	0.01uF	5%	50V	
C528	1-136-153-00	FILM	0.01uF	5%	50V	
C529	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C530	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C551	1-126-047-81	ELECT	4.7uF	20%	50V	
C552	1-162-283-31	CERAMIC	120PF	10%	50V	
C553	1-124-995-11	ELECT	220uF	20%	10V	
C554	1-102-233-00	CERAMIC	33PF	10%	500V	
C555	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V	
C564	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V	
C570	1-126-008-51	ELECT	47uF	20%	16V	
C571	1-107-597-11	CERAMIC	22PF	10%	500V	
C572	1-107-597-11	CERAMIC	22PF	10%	500V	
C573	1-162-286-31	CERAMIC	220PF	10%	50V	
C574	1-136-157-00	FILM	0.022uF	5%	50V	
C577	1-136-153-00	FILM	0.01uF	5%	50V	
C578	1-136-153-00	FILM	0.01uF	5%	50V	
C579	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C580	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C598	1-126-077-11	ELECT	100uF	20%	100V	
C599	1-126-077-11	ELECT	100uF	20%	100V	
C601	1-126-047-81	ELECT	4.7uF	20%	50V	
C602	1-162-283-31	CERAMIC	120PF	10%	50V	
C603	1-124-995-11	ELECT	220uF	20%	10V	
C604	1-102-233-00	CERAMIC	33PF	10%	500V	
C605	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V	
C614	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V	
C620	1-126-008-51	ELECT	47uF	20%	16V	
C621	1-107-597-11	CERAMIC	22PF	10%	500V	
C622	1-107-597-11	CERAMIC	22PF	10%	500V	
C623	1-162-286-31	CERAMIC	220PF	10%	50V	
C624	1-136-157-00	FILM	0.022uF	5%	50V	
C629	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C630	1-130-475-00	MYLAR	0.0022uF	5%	50V	
C651	1-126-047-81	ELECT	4.7uF	20%	50V	
C652	1-162-283-31	CERAMIC	120PF	10%	50V	

Ref. No.	Part No.	Description	Remarks
C653	1-124-995-11	ELECT 220uF 20% 10V	
C654	1-102-233-00	CERAMIC 33PF 10% 500V	
C664	1-102-936-00	CERAMIC 3.0PF ±0.25PF 50V	
C679	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C680	1-130-475-00	MYLAR 0.0022uF 5% 50V	
C916	1-130-781-00	FILM 0.22uF 10% 100V (DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	
C917	1-130-781-00	FILM 0.22uF 10% 100V (DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	
C951	1-136-153-00	FILM 0.01uF 5% 50V	
C952	1-136-153-00	FILM 0.01uF 5% 50V	
C953	1-126-041-11	ELECT 2200uF 20% 35V	
C954	1-126-041-11	ELECT 2200uF 20% 35V	
C955	1-126-026-11	ELECT 470uF 20% 25V	
C956	1-126-026-11	ELECT 470uF 20% 25V	
C960	1-119-796-21	ELECT 4700uF 20% 16V	
C961	1-119-841-11	ELECT 1000uF 20% 63V	
C962	1-126-012-11	ELECT 470uF 20% 16V	
C963	1-164-159-11	CERAMIC 0.1uF 50V	
C965	1-136-153-00	FILM 0.01uF 5% 50V	
C966	1-136-153-00	FILM 0.01uF 5% 50V	
C991	1-126-040-11	ELECT 1000uF 20% 35V	
C992	1-107-913-11	ELECT 470uF 20% 35V (DA50ES/V55ES)	
C993	1-126-044-11	ELECT 1uF 20% 50V (DA50ES/V55ES)	
		< CONNECTOR >	
CN501	1-779-978-11	PIN, CONNECTOR 3P (DA50ES:AEP,UK,G,EE,AUS)	
CN502	1-779-978-11	PIN, CONNECTOR 3P (DA50ES:AEP,UK,G,EE,AUS)	
CNP502	1-779-978-11	PIN, CONNECTOR 3P	
CNP601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
CNP911	1-779-978-11	PIN, CONNECTOR 3P	
CNP951	1-785-102-11	PIN, CONNECTOR 4P	
CNP952	1-785-103-11	PIN, CONNECTOR 5P	
CNP992	1-764-326-11	PIN, CONNECTOR (PCB) (V TYPE) 3P (DA50ES/V55ES)	
CNS409	1-569-323-11	SOCKET, CONNECTOR 19P	
CNV501	1-785-104-11	PIN, CONNECTOR 6P	
		< DIODE >	
D401	8-719-911-19	DIODE 1SS119	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D503	8-719-109-51	DIODE RD2.0ES-B2	
D504	8-719-911-19	DIODE 1SS119	
D505	8-719-911-19	DIODE 1SS119	
D506	8-719-911-19	DIODE 1SS119	
D507	8-719-911-19	DIODE 1SS119	
D547	8-719-911-19	DIODE 1SS119	
D548	8-719-911-19	DIODE 1SS119	
D549	8-719-911-19	DIODE 1SS119	
D551	8-719-911-19	DIODE 1SS119	
D552	8-719-911-19	DIODE 1SS119	
D553	8-719-109-51	DIODE RD2.0ES-B2	
D554	8-719-911-19	DIODE 1SS119	

Ref. No.	Part No.	Description	Remarks
D555	8-719-911-19	DIODE 1SS119	
D601	8-719-911-19	DIODE 1SS119	
D602	8-719-911-19	DIODE 1SS119	
D603	8-719-109-51	DIODE RD2.0ES-B2	
D604	8-719-911-19	DIODE 1SS119	
D605	8-719-911-19	DIODE 1SS119	
D655	8-719-911-19	DIODE 1SS119	
D951	8-719-024-99	DIODE 11ES2-NTA2B	
D952	8-719-024-99	DIODE 11ES2-NTA2B	
D953	8-719-024-99	DIODE 11ES2-NTA2B	
D954	8-719-024-99	DIODE 11ES2-NTA2B	
D955	8-719-025-03	DIODE RBA-402-SL	
D991	8-719-024-99	DIODE 11ES2-NTA2B	
D992	8-719-024-99	DIODE 11ES2-NTA2B	
		< EARTH >	
* EP902	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F951	1-532-503-51	FUSE 1.6A (EXCEPT US,CND)	
⚠F951	1-533-614-11	FUSE, GLASS CYLINDERICAL 1.6A (US,CND)	
⚠F952	1-532-503-51	FUSE 1.6A (EXCEPT US,CND)	
⚠F952	1-533-614-11	FUSE, GLASS CYLINDERICAL 1.6A (US,CND)	
⚠F953	1-532-465-51	FUSE, TIME LAG 3.15A (EXCEPT US,CND)	
⚠F953	1-533-690-11	FUSE, GLASS CYLINDRICAL(DIA.5)3.15A (US,CND)	
		< IC >	
IC201	8-759-636-74	IC M5218AP-22	
IC202	8-759-805-13	IC LC7821	
IC204	8-759-636-74	IC M5218AP-22	
IC351	8-759-805-14	IC LC7822 (DA50ES:AEP,UK,G,EE,AUS)	
IC401	8-759-636-74	IC M5218AP-22	
IC402	8-759-636-74	IC M5218AP-22	
IC405	8-759-636-74	IC M5218AP-22	
IC406	8-759-636-74	IC M5218AP-22	
IC407	8-759-636-74	IC M5218AP-22	
IC501	8-759-326-52	IC uPC2581V	
IC502	8-749-014-72	IC SAP15N	
IC503	8-749-014-73	IC SAP15P	
IC552	8-749-014-72	IC SAP15N	
IC553	8-749-014-73	IC SAP15P	
IC602	8-749-014-72	IC SAP15N	
IC601	8-759-326-52	IC uPC2581V	
IC603	8-749-014-73	IC SAP15P	
IC902	8-759-445-59	IC BA033T	
IC951	8-759-231-59	IC TA7815S	
IC952	8-759-245-87	IC TA7915S	
IC955	8-759-231-53	IC TA7805S	
		< JACK >	
J202	1-784-920-11	JACK, PIN 6P (PHONO/CD/MD DAT REC OUT)	
J203	1-784-920-11	JACK, PIN 6P (MD DAT IN/TAPE)	

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description				Remarks
		< COIL >				
L201	1-410-521-11	INDUCTOR	100uH			
			(DA50ES:AEP,UK,G,EE,AUS)			
L251	1-410-521-11	INDUCTOR	100uH			
			(DA50ES:AEP,UK,G,EE,AUS)			
L501	1-411-906-11	COIL, AIR-CORE				
L551	1-411-906-11	COIL, AIR-CORE				
L601	1-411-906-11	COIL, AIR-CORE				
		< TRANSISTOR >				
Q201	8-729-900-36	TRANSISTOR	DTC124ES			
Q202	8-729-900-63	TRANSISTOR	DTA124ES			
Q203	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q253	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q301	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q303	8-729-900-63	TRANSISTOR	DTA124ES			
Q351	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q352	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q353	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q354	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q355	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q356	8-729-141-30	TRANSISTOR	2SC3623A-LK			
Q508	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q509	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q545	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q546	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q547	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA			
Q548	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q549	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q558	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q559	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q608	8-729-140-82	TRANSISTOR	2SA988-PAFAEA			
Q609	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q659	8-729-119-79	TRANSISTOR	2SC2785-FEK			
Q991	8-729-111-29	TRANSISTOR	2SD1616A-K (DA50ES/V55ES)			
Q992	8-729-119-79	TRANSISTOR	2SC2785-FEK (DA50ES/V55ES)			
		< RESISTOR >				
R202	1-249-441-11	CARBON	100K	5%	1/4W	
R203	1-249-440-11	CARBON	82K	5%	1/4W	
R204	1-249-408-11	CARBON	180	5%	1/4W	F
R205	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R206	1-249-441-11	CARBON	100K	5%	1/4W	
R207	1-249-441-11	CARBON	100K	5%	1/4W	
R208	1-249-413-11	CARBON	470	5%	1/4W	F
R209	1-247-807-31	CARBON	100	5%	1/4W	
R210	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R211	1-249-417-11	CARBON	1K	5%	1/4W	F
R212	1-249-417-11	CARBON	1K	5%	1/4W	F
R213	1-249-417-11	CARBON	1K	5%	1/4W	F
R214	1-249-417-11	CARBON	1K	5%	1/4W	F
R215	1-249-401-11	CARBON	47	5%	1/4W	F
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)				
R217	1-249-441-11	CARBON	100K	5%	1/4W	
R232	1-247-807-31	CARBON	100	5%	1/4W	
R241	1-249-429-11	CARBON	10K	5%	1/4W	
R242	1-249-429-11	CARBON	10K	5%	1/4W	
R243	1-247-807-31	CARBON	100	5%	1/4W	
R244	1-247-807-31	CARBON	100	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R245	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R246	1-249-437-11	CARBON	47K	5%	1/4W	
R247	1-249-417-11	CARBON	1K	5%	1/4W	F
R248	1-249-397-11	CARBON	22	5%	1/4W	F
R249	1-249-397-11	CARBON	22	5%	1/4W	F
R250	1-249-441-11	CARBON	100K	5%	1/4W	
R252	1-249-441-11	CARBON	100K	5%	1/4W	
R253	1-249-440-11	CARBON	82K	5%	1/4W	
R254	1-249-408-11	CARBON	180	5%	1/4W	F
R255	1-249-428-11	CARBON	8.2K	5%	1/4W	F
R256	1-249-441-11	CARBON	100K	5%	1/4W	
R257	1-249-441-11	CARBON	100K	5%	1/4W	
R258	1-249-413-11	CARBON	470	5%	1/4W	F
R259	1-247-807-31	CARBON	100	5%	1/4W	
R260	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R261	1-249-417-11	CARBON	1K	5%	1/4W	F
R262	1-249-417-11	CARBON	1K	5%	1/4W	F
R263	1-249-417-11	CARBON	1K	5%	1/4W	F
R264	1-249-417-11	CARBON	1K	5%	1/4W	F
R265	1-249-401-11	CARBON	47	5%	1/4W	F
		(DA30ES/DA50ES:US,CND,E,EA,PX,SP,MY/V55ES)				
R267	1-249-441-11	CARBON	100K	5%	1/4W	
R278	1-249-437-11	CARBON	47K	5%	1/4W	
R279	1-249-441-11	CARBON	100K	5%	1/4W	
R282	1-247-807-31	CARBON	100	5%	1/4W	
R351	1-247-807-31	CARBON	100	5%	1/4W	
			(DA50ES:AEP,UK,G,EE,AUS)			
R352	1-247-807-31	CARBON	100	5%	1/4W	
			(DA50ES:AEP,UK,G,EE,AUS)			
R353	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R354	1-249-417-11	CARBON	1K	5%	1/4W	F
R355	1-249-429-11	CARBON	10K	5%	1/4W	
R356	1-249-429-11	CARBON	10K	5%	1/4W	
R357	1-249-429-11	CARBON	10K	5%	1/4W	
R358	1-249-429-11	CARBON	10K	5%	1/4W	
R359	1-249-429-11	CARBON	10K	5%	1/4W	
R360	1-249-429-11	CARBON	10K	5%	1/4W	
R401	1-249-441-11	CARBON	100K	5%	1/4W	
R402	1-249-441-11	CARBON	100K	5%	1/4W	
R403	1-249-441-11	CARBON	100K	5%	1/4W	
R404	1-249-430-11	CARBON	12K	5%	1/4W	
R405	1-249-430-11	CARBON	12K	5%	1/4W	
R406	1-249-430-11	CARBON	12K	5%	1/4W	
R407	1-249-437-11	CARBON	47K	5%	1/4W	
R408	1-249-437-11	CARBON	47K	5%	1/4W	
R409	1-249-437-11	CARBON	47K	5%	1/4W	
R410	1-249-437-11	CARBON	47K	5%	1/4W	
R411	1-249-437-11	CARBON	47K	5%	1/4W	
R412	1-249-437-11	CARBON	47K	5%	1/4W	
R413	1-249-417-11	CARBON	1K	5%	1/4W	F
R414	1-249-417-11	CARBON	1K	5%	1/4W	F
R415	1-249-417-11	CARBON	1K	5%	1/4W	F
R416	1-249-441-11	CARBON	100K	5%	1/4W	
R417	1-249-429-11	CARBON	10K	5%	1/4W	
R418	1-249-429-11	CARBON	10K	5%	1/4W	
R419	1-249-441-11	CARBON	100K	5%	1/4W	
R420	1-249-429-11	CARBON	10K	5%	1/4W	
R421	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description			Remarks
R451	1-249-441-11	CARBON	100K	5%	1/4W
R452	1-249-441-11	CARBON	100K	5%	1/4W
R453	1-249-441-11	CARBON	100K	5%	1/4W
R454	1-249-430-11	CARBON	12K	5%	1/4W
R455	1-249-430-11	CARBON	12K	5%	1/4W
R456	1-249-430-11	CARBON	12K	5%	1/4W
R457	1-249-437-11	CARBON	47K	5%	1/4W
R458	1-249-437-11	CARBON	47K	5%	1/4W
R459	1-249-437-11	CARBON	47K	5%	1/4W
R460	1-249-437-11	CARBON	47K	5%	1/4W
R461	1-249-437-11	CARBON	47K	5%	1/4W
R462	1-249-437-11	CARBON	47K	5%	1/4W
R463	1-249-417-11	CARBON	1K	5%	1/4W F
R464	1-249-417-11	CARBON	1K	5%	1/4W F
R465	1-249-417-11	CARBON	1K	5%	1/4W F
R466	1-249-441-11	CARBON	100K	5%	1/4W
R467	1-249-429-11	CARBON	10K	5%	1/4W
R468	1-249-429-11	CARBON	10K	5%	1/4W
R491	1-249-425-11	CARBON	4.7K	5%	1/4W F
R492	1-249-429-11	CARBON	10K	5%	1/4W
R493	1-249-393-11	CARBON	10	5%	1/4W F
R498	1-249-397-11	CARBON	22	5%	1/4W F
R499	1-249-397-11	CARBON	22	5%	1/4W F
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-438-11	CARBON	56K	5%	1/4W
R503	1-247-840-00	CARBON	2.4K	5%	1/4W (DA50ES/V55ES)
R503	1-247-842-11	CARBON	3K	5%	1/4W (DA30ES)
R504	1-249-432-11	CARBON	18K	5%	1/4W
R506	1-249-409-11	CARBON	220	5%	1/4W F
R507	1-249-415-11	CARBON	680	5%	1/4W F
R514	1-249-438-11	CARBON	56K	5%	1/4W
⚠R524	1-249-408-11	CARBON	180	5%	1/4W F
⚠R525	1-249-408-11	CARBON	180	5%	1/4W F
R527	1-247-850-11	CARBON	6.2K	5%	1/4W
R528	1-249-419-11	CARBON	1.5K	5%	1/4W F
R529	1-249-441-11	CARBON	100K	5%	1/4W
⚠R530	1-249-393-11	CARBON	10	5%	1/4W F
⚠R531	1-249-389-11	CARBON	4.7	5%	1/4W F
R532	1-249-437-11	CARBON	47K	5%	1/4W
R533	1-249-425-11	CARBON	4.7K	5%	1/4W F
R534	1-249-429-11	CARBON	10K	5%	1/4W
⚠R535	1-249-393-11	CARBON	10	5%	1/4W F
R538	1-215-868-00	METAL OXIDE	680	5%	1W
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-429-11	CARBON	10K	5%	1/4W
R543	1-249-425-11	CARBON	4.7K	5%	1/4W F
R544	1-249-429-11	CARBON	10K	5%	1/4W
⚠R545	1-249-393-11	CARBON	10	5%	1/4W F
R546	1-249-427-11	CARBON	6.8K	5%	1/4W F
R547	1-249-417-11	CARBON	1K	5%	1/4W F
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-438-11	CARBON	56K	5%	1/4W
R553	1-247-840-00	CARBON	2.4K	5%	1/4W (DA50ES/V55ES)
R553	1-247-842-11	CARBON	3K	5%	1/4W (DA30ES)
R556	1-249-409-11	CARBON	220	5%	1/4W F
R557	1-249-415-11	CARBON	680	5%	1/4W F
R564	1-249-438-11	CARBON	56K	5%	1/4W
⚠R574	1-249-408-11	CARBON	180	5%	1/4W F
⚠R575	1-249-408-11	CARBON	180	5%	1/4W F
R577	1-247-850-11	CARBON	6.2K	5%	1/4W
R578	1-249-419-11	CARBON	1.5K	5%	1/4W F
R579	1-249-441-11	CARBON	100K	5%	1/4W
⚠R580	1-249-393-11	CARBON	10	5%	1/4W F
⚠R581	1-249-389-11	CARBON	4.7	5%	1/4W F
R582	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-249-425-11	CARBON	4.7K	5%	1/4W F
R584	1-249-429-11	CARBON	10K	5%	1/4W
⚠R585	1-249-393-11	CARBON	10	5%	1/4W F
R588	1-215-868-00	METAL OXIDE	680	5%	1W
R595	1-249-425-11	CARBON	4.7K	5%	1/4W F
R596	1-249-429-11	CARBON	10K	5%	1/4W
⚠R597	1-249-393-11	CARBON	10	5%	1/4W F
⚠R598	1-249-393-11	CARBON	10	5%	1/4W F
⚠R599	1-249-393-11	CARBON	10	5%	1/4W F
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-438-11	CARBON	56K	5%	1/4W
R603	1-247-840-00	CARBON	2.4K	5%	1/4W (DA50ES/V55ES)
R603	1-247-842-11	CARBON	3K	5%	1/4W (DA30ES)
R604	1-249-432-11	CARBON	18K	5%	1/4W
R606	1-249-409-11	CARBON	220	5%	1/4W F
R607	1-249-415-11	CARBON	680	5%	1/4W F
R614	1-249-438-11	CARBON	56K	5%	1/4W
⚠R624	1-249-408-11	CARBON	180	5%	1/4W F
⚠R625	1-249-408-11	CARBON	180	5%	1/4W F
R627	1-247-850-11	CARBON	6.2K	5%	1/4W
R628	1-249-419-11	CARBON	1.5K	5%	1/4W F
R629	1-249-441-11	CARBON	100K	5%	1/4W
⚠R630	1-249-393-11	CARBON	10	5%	1/4W F
⚠R631	1-249-389-11	CARBON	4.7	5%	1/4W F
R632	1-249-437-11	CARBON	47K	5%	1/4W
R633	1-249-425-11	CARBON	4.7K	5%	1/4W F
R634	1-249-429-11	CARBON	10K	5%	1/4W
⚠R635	1-249-393-11	CARBON	10	5%	1/4W F
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-438-11	CARBON	56K	5%	1/4W
R653	1-247-840-00	CARBON	2.4K	5%	1/4W (DA50E/V55ES)
R653	1-247-842-11	CARBON	3K	5%	1/4W (DA30ES)
R654	1-249-409-11	CARBON	220	5%	1/4W F
R655	1-249-409-11	CARBON	220	5%	1/4W F
R664	1-249-438-11	CARBON	56K	5%	1/4W
R683	1-249-425-11	CARBON	4.7K	5%	1/4W F
R684	1-249-429-11	CARBON	10K	5%	1/4W
⚠R685	1-249-393-11	CARBON	10	5%	1/4W F
R922	1-249-439-11	CARBON	68K	5%	1/4W (DA50ES:US,CND,E,EA,PX)
R953	1-249-429-11	CARBON	10K	5%	1/4W

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MAIN | POWER SWITCH | PS

Ref. No.	Part No.	Description	Remarks
R991	1-249-417-11	CARBON 1K 5% 1/4W F	(DA50ES/V55ES)
R992	1-249-439-11	CARBON 68K 5% 1/4W	(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)
R993	1-249-433-11	CARBON 22K 5% 1/4W	(DA50ES/V55ES)
R995	1-249-441-11	CARBON 100K 5% 1/4W	(DA50ES/V55ES)
R996	1-249-429-11	CARBON 10K 5% 1/4W	
⚠R997	1-215-910-00	METAL OXIDE 68 5% 3W F	(DA50ES/V55ES)
		< VARIABLE RESISTOR >	
RV501	1-241-759-11	RES, ADJ, CARBON 220	
RV551	1-241-759-11	RES, ADJ, CARBON 220	
RV601	1-241-759-11	RES, ADJ, CARBON 220	
		< RELAY >	
RY401	1-515-793-11	RELAY	
RY501	1-515-920-11	RELAY (24V)	
RY502	1-515-920-11	RELAY (24V)	
RY503	1-515-793-11	RELAY	
RY504	1-515-793-11	RELAY	
RY601	1-515-920-11	RELAY (24V)	
RY602	1-515-793-11	RELAY	
		< TEST PIN >	
* TP501	1-560-060-00	PIN, CONNECTOR 2P	
* TP551	1-560-060-00	PIN, CONNECTOR 2P	
* TP601	1-560-060-00	PIN, CONNECTOR 2P	
**********			
*	1-670-749-11	POWER SWITCH BOARD	
		**********	
		< SWITCH >	
S101	1-572-184-11	SWITCH, KEYBOARD (POWER)	
**********			
*	A-4414-259-A	PS BOARD, COMPLETE (DA50ES:US)	
		**********	
*	A-4414-260-A	PS BOARD, COMPLETE (DA50ES:CND)	
		**********	
*	A-4414-261-A	PS BOARD, COMPLETE	
		**********	
		(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)	
*	A-4414-262-A	PS BOARD, COMPLETE (DA50ES:E,EA,PX)	
		**********	
*	A-4414-627-A	PS BOARD, COMPLETE (DA30ES:US)	
		**********	
*	A-4414-628-A	PS BOARD, COMPLETE (DA30ES:CND)	
		**********	
	1-533-217-31	HOLDER, FUSE	
	7-685-872-09	SCREW +BVTT 3X8 (S)	

Ref. No.	Part No.	Description	Remarks
		< CAPACITOR >	
C901	1-110-211-91	MYLAR 0.022uF 5% 50V	
C902	1-110-211-91	MYLAR 0.022uF 5% 50V	
C903	1-126-767-11	ELECT 1000uF 20% 16V	
C904	1-126-960-11	ELECT 1uF 20% 50V	
C905	1-126-959-11	ELECT 0.47uF 20% 50V	
C906	1-126-957-11	ELECT 0.22uF 20% 50V	
C907	1-126-964-11	ELECT 10uF 20% 50V	
C908	1-164-159-11	CERAMIC 0.1uF 50V	
C909	1-104-664-11	ELECT 47uF 20% 25V	
C910	1-164-159-11	CERAMIC 0.1uF 50V	
C911	1-164-159-11	CERAMIC 0.1uF 50V	
C912	1-164-159-11	CERAMIC 0.1uF 50V	
C913	1-128-564-11	ELECT 220uF 20% 100V	
C916	1-137-420-11	FILM 0.047uF 10% 100V	(DA30ES/DA50ES:US,CND,E,EA,PX)
C917	1-137-420-11	FILM 0.047uF 10% 100V	(DA30ES/DA50ES:US,CND,E,EA,PX)
C918	1-125-901-11	ELECT 18000uF 20% 63V	(DA30ES)
C919	1-125-901-11	ELECT 18000uF 20% 63V	(DA30ES)
		< CONNECTOR >	
CNP908	1-785-106-11	PIN, CONNECTOR 8P	
CNP909	1-785-102-11	PIN, CONNECTOR 4P	
CNP910	1-779-977-11	PIN, CONNECTOR 6P	
CNP913	1-784-921-11	PIN, CONNECTOR 4P	
		< DIODE >	
D901	8-719-024-99	DIODE 11ES2-NTA2B	
D902	8-719-024-99	DIODE 11ES2-NTA2B	
D903	8-719-024-99	DIODE 11ES2-NTA2B	
D904	8-719-024-99	DIODE 11ES2-NTA2B	
D905	8-719-911-19	DIODE 1SS119	
D906	8-719-911-19	DIODE 1SS119	
D908	8-719-118-64	DIODE RD5.6F-T7B3	
D909	8-719-024-99	DIODE 11ES2-NTA2B	
D910	8-719-024-99	DIODE 11ES2-NTA2B	
D911	8-719-911-19	DIODE 1SS119	
D912	8-719-072-05	DIODE RBV-602LF-A	
D914	8-719-072-05	DIODE RBV-602LF-A	
		< EARTH >	
* EP951	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F911	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5)10A 125V	
⚠F912	1-533-312-11	FUSE, GLASS CYLINDRICAL(DIA.5)10A 125V	
		< IC >	
IC901	8-759-333-83	IC NJM2103D	
		< TRANSISTOR >	
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q902	8-729-209-15	TRANSISTOR 2SD2012	
Q903	8-729-119-79	TRANSISTOR 2SC2785-FEK	

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Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R902	1-249-429-11	CARBON	10K	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W F
R904	1-249-417-11	CARBON	1K	5%	1/4W F
R905	1-249-428-11	CARBON	8.2K	5%	1/4W F
R906	1-249-421-11	CARBON	2.2K	5%	1/4W F
R908	1-249-433-11	CARBON	22K	5%	1/4W
R909	1-249-439-11	CARBON	68K	5%	1/4W
R910	1-249-437-11	CARBON	47K	5%	1/4W
R912	1-249-430-11	CARBON	12K	5%	1/4W
⚠R913	1-247-727-11	CARBON	10	5%	1/2W F
⚠R914	1-249-405-11	CARBON	100	5%	1/4W F
⚠R916	1-249-393-11	CARBON	10	5%	1/4W F
R917	1-249-425-11	CARBON	4.7K	5%	1/4W F
R918	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
RY902	1-515-894-11	RELAY (EXCEPT DA30ES:CND/DA50ES:CND)			
RY903	1-515-918-11	RELAY (DA30ES:CND/DA50ES:CND)			
RY904	1-515-918-11	RELAY (DA30ES:CND/DA50ES:CND)			
		< SWITCH >			
S902	1-692-196-11	SWITCH, SLIDE (IMPEDANCE SELECTOR)			
		< TRANSFORMER >			
⚠T902	1-431-387-11	TRANSFORMER, POWER			
**********					
*	A-4414-280-A	S.AMP BOARD, COMPLETE			
		**********			
		(DA50ES:US,CND,E,EA,PX)			
*	A-4414-281-A	S.AMP BOARD, COMPLETE			
		**********			
		(DA50ES:AEP,UK,G,EE,AUS,SP,MY)			
*	A-4414-282-A	S.AMP BOARD, COMPLETE (V55ES)			
		**********			
*	A-4414-301-A	S.AMP BOARD, COMPLETE (DA30ES)			
		**********			
		< CAPACITOR >			
C701	1-126-047-81	ELECT	4.7uF	20%	50V
C702	1-162-283-31	CERAMIC	120PF	10%	50V
C703	1-124-995-11	ELECT	220uF	20%	10V
C704	1-102-233-00	CERAMIC	33PF	10%	500V
C705	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C714	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C720	1-126-008-51	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C724	1-136-157-00	FILM	0.022uF	5%	50V
C729	1-130-475-00	MYLAR	0.0022uF	5%	50V
C730	1-130-475-00	MYLAR	0.0022uF	5%	50V
C751	1-126-047-81	ELECT	4.7uF	20%	50V
C752	1-162-283-31	CERAMIC	120PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C753	1-124-995-11	ELECT	220uF	20%	10V
C754	1-102-233-00	CERAMIC	33PF	10%	500V
C755	1-102-934-00	CERAMIC	1.0PF	±0.25PF	50V
C764	1-102-936-00	CERAMIC	3.0PF	±0.25PF	50V
C770	1-126-008-51	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C774	1-136-157-00	FILM	0.022uF	5%	50V
C779	1-130-475-00	MYLAR	0.0022uF	5%	50V
C780	1-130-475-00	MYLAR	0.0022uF	5%	50V
C798	1-126-077-11	ELECT	100uF	20%	100V
C799	1-126-077-11	ELECT	100uF	20%	100V
		< CONNECTOR >			
CNP701	1-784-923-11	PIN, CONNECTOR 7P			
CNP702	1-784-921-11	PIN, CONNECTOR 4P			
CNP703	1-785-103-11	PIN, CONNECTOR 5P			
CNP704	1-785-102-11	PIN, CONNECTOR 4P			
CNP705	1-779-978-11	PIN, CONNECTOR 3P			
		< DIODE >			
D701	8-719-911-19	DIODE 1SS119			
D702	8-719-911-19	DIODE 1SS119			
D703	8-719-109-51	DIODE RD2.0ES-B2			
D704	8-719-911-19	DIODE 1SS119			
D705	8-719-911-19	DIODE 1SS119			
D751	8-719-911-19	DIODE 1SS119			
D752	8-719-911-19	DIODE 1SS119			
D753	8-719-109-51	DIODE RD2.0ES-B2			
D754	8-719-911-19	DIODE 1SS119			
		< IC >			
IC701	8-759-326-52	IC uPC2581V			
IC702	8-749-014-72	IC SAP15N			
IC703	8-749-014-73	IC SAP15P			
IC752	8-749-014-72	IC SAP15N			
IC753	8-749-014-73	IC SAP15P			
		< COIL >			
L701	1-411-906-11	COIL, AIR-CORE			
L751	1-411-906-11	COIL, AIR-CORE			
		< TRANSISTOR >			
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
Q709	8-729-119-79	TRANSISTOR 2SC2785-FEK			
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA			
		< RESISTOR >			
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-438-11	CARBON	56K	5%	1/4W
R703	1-247-840-00	CARBON	2.4K	5%	1/4W
					(DA50ES/V55ES)
R703	1-247-842-11	CARBON	3K	5%	1/4W
					(DA30ES)
R704	1-249-432-11	CARBON	18K	5%	1/4W

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S.AMP S.VIDEO

Ref. No.	Part No.	Description			Remarks
R707	1-249-415-11	CARBON	680	5%	1/4W F
R714	1-249-438-11	CARBON	56K	5%	1/4W
⚠R724	1-249-408-11	CARBON	180	5%	1/4W F
⚠R725	1-249-408-11	CARBON	180	5%	1/4W F
R727	1-247-850-11	CARBON	6.2K	5%	1/4W
R728	1-249-419-11	CARBON	1.5K	5%	1/4W F
R729	1-249-441-11	CARBON	100K	5%	1/4W
⚠R730	1-249-393-11	CARBON	10	5%	1/4W F
⚠R731	1-249-389-11	CARBON	4.7	5%	1/4W F
R732	1-249-437-11	CARBON	47K	5%	1/4W
R733	1-249-425-11	CARBON	4.7K	5%	1/4W F
R734	1-249-429-11	CARBON	10K	5%	1/4W
⚠R735	1-249-393-11	CARBON	10	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-438-11	CARBON	56K	5%	1/4W
R753	1-247-840-00	CARBON	2.4K	5%	1/4W (DA50ES/V55ES)
R753	1-247-842-11	CARBON	3K	5%	1/4W (DA30ES)
R757	1-249-415-11	CARBON	680	5%	1/4W F
R764	1-249-438-11	CARBON	56K	5%	1/4W
⚠R774	1-249-408-11	CARBON	180	5%	1/4W F
⚠R775	1-249-408-11	CARBON	180	5%	1/4W F
R777	1-247-850-11	CARBON	6.2K	5%	1/4W
R778	1-249-419-11	CARBON	1.5K	5%	1/4W F
R779	1-249-441-11	CARBON	100K	5%	1/4W
⚠R780	1-249-393-11	CARBON	10	5%	1/4W F
⚠R781	1-249-389-11	CARBON	4.7	5%	1/4W F
R782	1-249-437-11	CARBON	47K	5%	1/4W
⚠R798	1-249-393-11	CARBON	10	5%	1/4W F
⚠R799	1-249-393-11	CARBON	10	5%	1/4W F
		< VARIABLE RESISTOR >			
RV701	1-241-759-11	RES, ADJ, CARBON 220			
RV751	1-241-759-11	RES, ADJ, CARBON 220			
		< RELAY >			
RY701	1-515-920-11	RELAY (24V)			
		< TEST PIN >			
* TP701	1-560-060-00	PIN, CONNECTOR 2P			
* TP751	1-560-060-00	PIN, CONNECTOR 2P			
**********					
*	A-4414-297-A	S.VIDEO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C801	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C802	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C803	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C804	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C807	1-126-933-11	ELECT	100uF	20%	16V
C808	1-126-933-11	ELECT	100uF	20%	16V
C809	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C810	1-126-964-11	ELECT	10uF	20%	50V
C811	1-126-933-11	ELECT	100uF	20%	16V
C812	1-126-933-11	ELECT	100uF	20%	16V

Ref. No.	Part No.	Description			Remarks
C813	1-126-933-11	ELECT	100uF	20%	16V
C814	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C815	1-126-933-11	ELECT	100uF	20%	16V
C818	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C821	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C822	1-126-964-11	ELECT	10uF	20%	50V
C823	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C824	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C825	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C826	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C827	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C828	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C829	1-126-964-11	ELECT	10uF	20%	50V
C830	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C831	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C833	1-126-964-11	ELECT	10uF	20%	50V
C834	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C845	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C868	1-126-964-11	ELECT	10uF	20%	50V
C869	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
		< CONNECTOR >			
CNP803	1-784-922-11	PIN, CONNECTOR 5P			
CNP805	1-779-799-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-016-74	DIODE 1SS352			
D802	8-719-016-74	DIODE 1SS352			
		< IC >			
IC801	8-759-701-84	IC NJM7905FA			
IC811	8-759-536-24	IC NJM-2296M-TE2			
IC812	8-759-536-24	IC NJM-2296M-TE2			
		< JACK >			
J101	1-563-330-11	JACK (S-LINK)			
J801	1-764-676-11	CONNECTOR (ROUND TYPE) (TV/DBS/DVD/LD)			
J802	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 2)			
J803	1-764-676-11	CONNECTOR (ROUND TYPE) (VIDEO 1)			
J804	1-537-943-11	TERMINAL, S (MONITOR)			
		< COIL >			
L801	1-500-425-11	FERRITE			
L802	1-500-425-11	FERRITE			
L803	1-500-425-11	FERRITE			
L804	1-500-425-11	FERRITE			
		< RESISTOR >			
R801	1-216-089-91	RES,CHIP	47K	5%	1/10W
R815	1-216-022-00	METAL CHIP	75	5%	1/10W
R818	1-216-022-00	METAL CHIP	75	5%	1/10W
R819	1-216-022-00	METAL CHIP	75	5%	1/10W
R821	1-216-022-00	METAL CHIP	75	5%	1/10W
R822	1-216-022-00	METAL CHIP	75	5%	1/10W
R823	1-216-022-00	METAL CHIP	75	5%	1/10W
R825	1-216-022-00	METAL CHIP	75	5%	1/10W
R827	1-216-022-00	METAL CHIP	75	5%	1/10W
R831	1-216-022-00	METAL CHIP	75	5%	1/10W

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Ref. No.	Part No.	Description			Remarks
R838	1-216-022-00	METAL CHIP	75	5%	1/10W
R851	1-216-022-00	METAL CHIP	75	5%	1/10W
R857	1-216-022-00	METAL CHIP	75	5%	1/10W
R8055	1-216-022-00	METAL CHIP	75	5%	1/10W
R8056	1-216-022-00	METAL CHIP	75	5%	1/10W
**********					
*	1-670-150-11	SP TM BOARD			
		**********			
		< CAPACITOR >			
C527	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C528	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C577	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C578	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C588	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C590	1-162-282-31	CERAMIC	100PF	10%	50V
C591	1-162-282-31	CERAMIC	100PF	10%	50V
C625	1-162-282-31	CERAMIC	100PF	10%	50V
C627	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C725	1-162-282-31	CERAMIC	100PF	10%	50V
C727	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
C775	1-162-282-31	CERAMIC	100PF	10%	50V
C777	1-136-153-00	FILM	0.01uF	5%	50V
			(DA50ES:AEP,UK,G,EE,AUS)		
		< RESISTOR >			
⚠R536	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R537	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R586	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R587	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R636	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R736	1-249-393-11	CARBON	10	5%	1/4W F
			(DA50ES:AEP,UK,G,EE,AUS)		
⚠R786	1-249-393-11	CARBON	10	5%	1/4W F
		< TERMINAL >			
* TM501	1-694-454-21	TERMINAL BOARD (SPEAKER)			
TM701	1-694-432-21	TERMINAL BOARD (REAR/CENTER)			
**********					
*	1-670-142-11	SP.SWITCH BOARD			
		**********			
		< CONNECTOR >			
CNP101	1-779-977-11	PIN, CONNECTOR 6P			

Ref. No.	Part No.	Description			Remarks
		< DIODE >			
D105	8-719-911-19	DIODE 1SS119			
D106	8-719-911-19	DIODE 1SS119			
		< RESISTOR >			
R155	1-249-413-11	CARBON	470	5%	1/4W F
R156	1-249-415-11	CARBON	680	5%	1/4W F
R157	1-249-417-11	CARBON	1K	5%	1/4W F
R158	1-249-419-11	CARBON	1.5K	5%	1/4W F
		< SWITCH >			
S102	1-762-268-11	SWITCH, ROTARY (SPEAKERS)			
S122	1-572-184-11	SWITCH, KEYBOARD (PRESET TUNING +)			
S123	1-572-184-11	SWITCH, KEYBOARD (PRESET TUNING -)			
S124	1-572-184-11	SWITCH, KEYBOARD (SHIFT)			
S125	1-572-184-11	SWITCH, KEYBOARD (FM/AM)			
**********					
*	1-670-151-11	TH BOARD			
		********			
		< THERMISTOR >			
TH901	1-809-789-71	THERMISTOR, POSITIVE			
**********					
*	1-670-138-11	VIDEO BOARD			
		**********			
		< CAPACITOR >			
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-164-159-11	CERAMIC	0.1uF		50V
C816	1-126-933-11	ELECT	100uF	20%	16V
C817	1-126-933-11	ELECT	100uF	20%	16V
C832	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C835	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C836	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C853	1-126-960-11	ELECT	1uF	20%	50V
C856	1-126-960-11	ELECT	1uF	20%	50V
C858	1-126-960-11	ELECT	1uF	20%	50V
C862	1-126-960-11	ELECT	1uF	20%	50V
C867	1-126-960-11	ELECT	1uF	20%	50V
		< IC >			
IC813	8-759-529-20	IC NJM2296D			
		< JACK >			
J805	1-766-400-11	JACK, PIN 2P (VIDEO 1 OUT/VIDEO 2 IN)			
J806	1-766-400-11	JACK, PIN 2P (MONITOR/VIDEO 1 IN)			
J807	1-766-399-11	JACK, PIN 3P (VIDEO 2 OUT/DVD/LD/TV/DBS)			
		< COIL >			
L805	1-410-521-11	INDUCTOR	100uH		
L806	1-410-521-11	INDUCTOR	100uH		

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VIDEO | VOLTAGE SELECTOR | VOLUME | 5.1 INPUT

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R861	1-247-804-11	CARBON	75	5% 1/4W	
R862	1-247-804-11	CARBON	75	5% 1/4W	
R863	1-247-804-11	CARBON	75	5% 1/4W	
R866	1-247-804-11	CARBON	75	5% 1/4W	
R868	1-247-804-11	CARBON	75	5% 1/4W	
R869	1-247-804-11	CARBON	75	5% 1/4W	
R879	1-247-804-11	CARBON	75	5% 1/4W	
**********					
*	1-670-750-11	VOLTAGE SELECTOR BOARD (DA50ES:E,EA,PX)			
		**********			
		< CONNECTOR >			
* CNP904	1-564-687-11	PIN, CONNECTOR 3P			
CNP906	1-568-106-11	PIN, CONNECTOR 4P			
		< SWITCH >			
⚠S901	1-692-196-11	SWITCH, SLIDE (VOLTAGE SLECTOR)			
**********					
*	1-670-141-11	VOLUME BOARD			
		**********			
		< CAPACITOR >			
C1492	1-104-664-11	ELECT	47uF	20% 16V	
C1493	1-104-664-11	ELECT	47uF	20% 16V	
C1501	1-126-960-11	ELECT	1uF	20% 50V	
C1502	1-126-960-11	ELECT	1uF	20% 50V	
		< CONNECTOR >			
CNP401	1-784-924-11	PIN, CONNECTOR 8P			
CNP403	1-779-978-11	PIN, CONNECTOR 3P			
CNP404	1-770-389-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP405	1-784-921-11	PIN, CONNECTOR 4P			
* CNP407	1-564-522-11	PLUG, CONNECTOR 7P			
CNP409	1-784-923-11	PIN, CONNECTOR 7P			
CNP1406	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P			
		< RESISTOR >			
R1496	1-249-397-11	CARBON	22	5% 1/4W	F
R1497	1-249-397-11	CARBON	22	5% 1/4W	F
		< VARIABLE RESISTOR >			
RV1501	1-225-445-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			
**********					
*	1-670-134-11	5.1 INPUT BOARD			
		**********			
		< CAPACITOR >			
C360	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C361	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C354	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C355	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	

Ref. No.	Part No.	Description			Remarks
C356	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C357	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C358	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C359	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C362	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C363	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C364	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
C365	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
				(DA50ES:AEP,UK,G,EE,AUS)	
		< CONNECTOR >			
CNP303	1-779-978-11	PIN, CONNECTOR 3P			
CNP351	1-779-799-11	PIN, CONNECTOR 9P			
				(DA50ES:AEP,UK,G,EE,AUS)	
CNP352	1-784-922-11	PIN, CONNECTOR 5P			
		< JACK >			
J351	1-779-685-11	JACK, PIN 6P (5.1 INPUT)			
				(DA50ES:AEP,UK,G,EE,AUS)	
J352	1-785-009-11	JACK, PIN 6P (FRONT/REAR WOOFER)			
J353	1-774-785-11	JACK, PIN 1P (CENTER)			
		< RESISTOR >			
R361	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R362	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R363	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R364	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R365	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R366	1-216-049-91	RES,CHIP	1K	5% 1/10W	
				(DA50ES:AEP,UK,G,EE,AUS)	
R367	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R368	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R369	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R370	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R371	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R372	1-216-049-91	RES,CHIP	1K	5% 1/10W	
R373	1-216-077-00	METAL CHIP	15K	5% 1/10W	
				(DA50ES/V55ES)	
R373	1-216-075-00	METAL CHIP	12K	5% 1/10W	
				(DA30ES)	
R374	1-216-077-00	METAL CHIP	15K	5% 1/10W	
				(DA50ES/V55ES)	
R374	1-216-075-00	METAL CHIP	12K	5% 1/10W	
				(DA30ES)	
R375	1-216-077-00	METAL CHIP	15K	5% 1/10W	
				(DA50ES/V55ES)	
R375	1-216-075-00	METAL CHIP	12K	5% 1/10W	
				(DA30ES)	
R376	1-216-077-00	METAL CHIP	15K	5% 1/10W	
				(DA50ES/V55ES)	

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Ref. No.	Part No.	Description	Remarks
R376	1-216-075-00	METAL CHIP 12K 5% 1/10W	(DA30ES)
R377	1-216-077-00	METAL CHIP 15K 5% 1/10W	(DA50ES/V55ES)
R377	1-216-075-00	METAL CHIP 12K 5% 1/10W	(DA30ES)
R378	1-216-077-00	METAL CHIP 15K 5% 1/10W	(DA50ES/V55ES)
R378	1-216-075-00	METAL CHIP 12K 5% 1/10W	(DA30ES)
R380	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R381	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R382	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R383	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R384	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R385	1-216-049-91	RES,CHIP 1K 5% 1/10W	
**********			
		MISCELLANEOUS	
		**********	
56	1-698-792-11	FAN, DC (DA50ES/V55ES)	
68	1-693-407-11	TUNER (DA30ES/DA50ES:US,CND,E,EA,PX)	
68	1-693-409-11	TUNER	(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)
74	1-773-115-11	WIRE (FLAT TYPE) (19 CORE)	
⚠80	1-569-008-21	ADAPTOR, CONVERSION 2P (E,EA,PX)	
⚠81	1-559-479-11	CORD, POWER (US,CND)	
⚠81	1-776-095-11	CORD, POWER (EXCEPT US,CND,CH)	
⚠81	1-782-464-21	CORD, POWER (CH)	
⚠T901	1-431-921-11	TRANSFORMER, POWER (DA50ES:US)	
⚠T901	1-431-922-11	TRANSFORMER, POWER (DA50ES:CND)	
⚠T901	1-431-923-11	TRANSFORMER, POWER	(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)
⚠T901	1-431-924-11	TRANSFORMER, POWER (DA50ES:E,EA,PX)	
⚠T901	1-431-925-11	TRANSFORMER, POWER (DA30ES:US)	
⚠T901	1-431-926-11	TRANSFORMER, POWER (DA30ES:CND)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-726-11	REMOTE COMMANDER (RM-LJ301)(DA30ES)	
	1-475-727-11	REMOTE COMMANDER (RM-TP501)	(DA50ES/V55ES)
	1-501-374-11	ANTENNA, LOOP (AM)	
	1-501-594-11	ANTENNA (FM)	(DA50ES:AEP,UK,G,EE,AUS,SP,MY/V55ES)
	1-528-174-31	BATTERY, LITHIUM (CR2032 TYPE)	(DA50ES/V55ES)

Ref. No.	Part No.	Description	Remarks
	3-810-765-11	MANUAL,COMMONNESS INSTRUCTION	(ENGLISH)(DA30ES/DA50ES:US,CND)
	3-810-765-21	MANUAL,COMMONNESS INSTRUCTION	(ENGLISH/FRENCH/GERMAN/SPANISH/DUTCH/SEWDISH/ITALIAN/PORTUGUESE/CHINESE) (EXCEPT DA30ES/DA50ES:US,CND)
	3-860-596-31	MANUAL,COMMONNESS INSTRUCTION	(CHINESE)(V55ES)
	3-864-441-11	MANUAL,COMMONNESS INSTRUCTION	(ENGLISH)(DA30ES)
	3-864-441-21	MANUAL,COMMONNESS INSTRUCTION	(ENGLISH/SPANISH)(DA30ES:CND)
	3-864-511-11	MANUAL,INSTRUCTION (ENGLISH)(DA30ES)	
	3-864-511-21	MANUAL,INSTRUCTION	(FRENCH)(DA30ES:CND)
	3-864-512-11	MANUAL,INSTRUCTION (ENGLISH)	(DA50ES:US,CND,E,EA,PX,SP,MY)
	3-864-512-21	MANUAL,INSTRUCTION (FRENCH)	(DA50ES:CND,E,EA,PX)
	3-864-512-31	MANUAL,INSTRUCTION (SPANISH)	(DA50ES:E,EA,PX)
	3-864-512-41	MANUAL,INSTRUCTION	(CHINESE)(DA50ES:SP,MY)
	3-864-512-51	MANUAL,INSTRUCTION	(ENGLISH/CHINESE)(V55ES)
	3-864-512-61	MANUAL,INSTRUCTION	(ENGLISH/FRENCH/DUTCH/SWEDISH) (DA50ES:AEP,UK,G,EE,AUS)
	3-864-512-71	MANUAL,INSTRUCTION	(GERMAN/SPANISH/ITALIAN/PORTUGUESE) (DA50ES:AEP,UK,G,EE,AUS)
	3-864-784-11	MANUAL,INSTRUCTION (RM-TP501)	(ENGLISH) (DA50ES/V55ES)
	3-864-784-21	MANUAL,INSTRUCTION (RM-TP501)	(FRENCH/SPANISH) (DA50ES:CND,AEP,UK,G,EE,AUS,E,PX,EA)
	3-864-784-31	MANUAL,INSTRUCTION (RM-TP501)	(DUTCH/SWEDISH/GERMAN/ITALIAN/PORTUGUESE) (DA50ES:AEP,UK,G,EE,AUS)
	3-864-784-41	MANUAL,INSTRUCTION (RM-TP501)	(CHINESE) (DA50ES:SP,MY/V55ES)
	4-210-990-01	BATTERY CASE (for RM-LJ301) (DA30ES)	
	4-997-648-11	COVER, BATTERY (For RM-TP501)	
	4-997-658-01	PEN (For RM-TP501)	
**********			
		**********	
		HARDWERE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
#3	7-685-885-09	SCREW +BVTT 4X16 (S)	
#4	7-685-872-09	SCREW +BVTT 3X8 (S)	

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